



Europe-Africa-Middle East: COMMERCIAL

LEXAN 943A is a medium viscosity flame retardant grade. UL-94 V0 listed and available in transparent and tints.

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Taber Abrasion, CS-17, 1 kg	10	mg/1000cy	SABIC Method
Tensile Stress, yield, 50 mm/min	63	MPa	ISO 527
Tensile Stress, break, 50 mm/min	65	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	6	%	ISO 527
Tensile Strain, break, 50 mm/min	100	%	ISO 527
Tensile Modulus, 1 mm/min	2350	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	90	MPa	ISO 178
Flexural Modulus, 2 mm/min	2300	MPa	ISO 178
Hardness, H358/30	95	MPa	ISO 2039-1
IMPACT			
Izod Impact, unnotched 80*10*3 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, unnotched 80*10*3 -30°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*3 +23°C	70	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*3 -30°C	12	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	73	kJ/m²	ISO 179/1eA
Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm	14	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Charpy Impact, notched, 23°C	30	kJ/m²	ISO 179/2C
THERMAL			
Thermal Conductivity	0.2	W/m-°C	ISO 8302
CTE, 23°C to 80°C, flow	7.E-05	1/°C	ISO 11359-2
Ball Pressure Test, 125°C +/- 2°C	PASSES	-	IEC 60695-10-2

 Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
All properties, expect the melt volume rate are measured on injection moulded samples. All samples are prepared according to ISO 294. 2) Only typical data for material selection purpose.Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
4) Own measurement according to UL.

Source, GMD, Last Update:03/14/2008

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THERMAL Itel Pressure Test, approximate maximum 140 °C IEC 60695-10-2 Vicat Softening Temp, Rate B/50 141 °C ISO 306 Vicat Softening Temp, Rate B/50 141 °C ISO 306 Vicat Softening Temp, Rate B/120 142 °C ISO 306 HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 136 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 125 °C UL 746B Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech winpact 125 °C UL 746B PHYSICAL V V V Mold Shrinkage on Tensile Bar, flow (2) 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.35 % ISO 62 Melt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 1133 OPTICAL ILight Transmission 88 % ASTM D 1003 Refractive Index 1.586 - ISO 489<	TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
Vicat Softening Temp, Rate B/50 141 °C ISO 306 Vicat Softening Temp, Rate B/120 142 °C ISO 306 HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 136 °C ISO 75/Be HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 136 °C ISO 75/Be Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 125 °C UL 746B PHYSICAL 120 °C UL 746B Mold Shrinkage on Tensile Bar, flow (2) 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.35 % ISO 62 Meit Volume Rate, MVR at 300°C/1.2 kg 9 m³/10 min ISO 133 OPTICAL ILight Transmission 88 % ASTM D 1003 Refactive Index 1.586 - ISO 489 ELECTRICAL ISO 489 IEC 60093 Volume Resistivity, ROA 1.	THERMAL			
Vicat Softening Temp, Rate B/120 142 °C ISO 306 HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 136 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 125 °C ISO 75/Ae Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 120 °C UL 746B PHYSICAL °C UL 746B Mold Shrinkage on Tensile Bar, flow (2) 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption (23°C / Sot) RH) 0.35 % ISO 62 Moisture Absorption (23°C / Sot, RH) 0.15 % ISO 62 Met Volume Rate, MVR at 300°C/1.2 kg 9 om*10 min ISO 489 PHTEAL Light Transmission 88 % ASTM D 1003 Refactive Index 1.586 - ISO 489 IEC 60093 Dielectri Strength, in oil, 3.2 mm 17 Mmm<	Ball Pressure Test, approximate maximum	140	°C	IEC 60695-10-2
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 136 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 125 °C ISO 75/Ae Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Kech w/mpact 120 °C UL 746B Relative Temp Index, Mech w/o impact 125 °C UL 746B Relative Temp Index, Mech w/o impact 125 °C UL 746B PHYSICAL °C UL 746B Mold Shrinkage on Tensile Bar, flow (2) 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.35 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 1133 OPTICAL ISO 489 ISO 489 ISO 130 Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 - ISO 489 ELECTRICAL Volume Resistivity, ROA >1.E+15 Ohm IEC 60033 Dielectric Strength, in oil	Vicat Softening Temp, Rate B/50	141	°C	ISO 306
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 125 °C ISO 75/Ae Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/impact 125 °C UL 746B Relative Temp Index, Mech w/o impact 125 °C UL 746B PHYSICAL °C UL 746B PHYSICAL sABIC Method SABIC Method Density 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption (23°C/sat) 0.35 % ISO 62 Molt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 1133 OPTICAL ISO 489 Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 - ISO 489 ELECTRICAL Volume Resistivity, ROA >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA 3.2 mm<	Vicat Softening Temp, Rate B/120	142	°C	ISO 306
Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 125 °C UL 746B PHYSICAL °C UL 746B Mold Shrinkage on Tensile Bar, flow (2) 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption (23°C/sat) 0.35 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 1133 OPTICAL ISO 1133 ISO 1133 PHYICAL 12 g/cm³10 min ISO 1133 OPTICAL ISO 112 MIN ISO 62 ISO 62 Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 ISO 6093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 KV/mm IEC 60250	HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	136	°C	ISO 75/Be
Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 125 °C UL 746B PHYSICAL °C UL 746B Mold Shrinkage on Tensile Bar, flow (2) 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.35 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 1133 OPTICAL Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 IEC 60093 IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm cm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 KV/mm IEC 60250 Relative Permititivity, 50/60 Hz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	125	°C	ISO 75/Ae
Relative Temp Index, Mech w/o impact 125 °C UL 746B PHYSICAL Mold Shrinkage on Tensile Bar, flow (2) 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.35 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 1133 OPTICAL Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 - ISO 489 FLECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Relative Temp Index, Elec	130	°C	UL 746B
PHYSICAL SABIC Method Mold Shrinkage on Tensile Bar, flow (2) 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.35 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 1133 OPTICAL Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 - ISO 489 ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 KV/mm IEC 60243-1 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Relative Temp Index, Mech w/impact	120	°C	UL 746B
Mold Shrinkage on Tensile Bar, flow (2) 0.5 - 0.7 % SABIC Method Density 1.2 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.35 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 6133 PTICAL Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 ISO 489 DetectricAL JE+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 KV/mm IEC 60243-1 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Relative Temp Index, Mech w/o impact	125	°C	UL 746B
Density 1.2 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.35 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 1133 OPTICAL Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 - ISO 489 ELECTRICAL Volume Resistivity, ROA >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 IEC 6023.11 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60250 IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250 IEC 60250	PHYSICAL			
Water Absorption, (23°C/sat) 0.35 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 1133 OPTICAL Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 - ISO 489 ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60293 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Mold Shrinkage on Tensile Bar, flow (2)	0.5 - 0.7	%	SABIC Method
Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 1133 OPTICAL Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 - ISO 489 ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 KV/mm IEC 60243-1 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Density	1.2	g/cm ³	ISO 1183
Melt Volume Rate, MVR at 300°C/1.2 kg 9 cm³/10 min ISO 1133 OPTICAL	Water Absorption, (23°C/sat)	0.35	%	ISO 62
OPTICALLight Transmission88%ASTM D 1003Refractive Index1.586-ISO 489ELECTRICALVolume Resistivity>1.E+15Ohm-cmIEC 60093Surface Resistivity, ROA>1.E+15OhmIEC 60093Dielectric Strength, in oil, 3.2 mm17kV/mmIEC 60243-1Relative Permittivity, 50/60 Hz2.7-IEC 60250Relative Permittivity, 1 MHz2.7-IEC 60250Dissipation Factor, 50/60 Hz0.001-IEC 60250	Moisture Absorption (23°C / 50% RH)	0.15	%	ISO 62
Light Transmission 88 % ASTM D 1003 Refractive Index 1.586 - ISO 489 ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 KV/mm IEC 60243-1 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Melt Volume Rate, MVR at 300°C/1.2 kg	9	cm ³ /10 min	ISO 1133
Refractive Index 1.586 - ISO 489 ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 KV/mm IEC 60243-1 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	OPTICAL			
ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Light Transmission	88	%	ASTM D 1003
Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Refractive Index	1.586	-	ISO 489
Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	ELECTRICAL			
Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Volume Resistivity	>1.E+15	Ohm-cm	IEC 60093
Relative Permittivity, 50/60 Hz 2.7 - IEC 60250 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Surface Resistivity, ROA	>1.E+15	Ohm	IEC 60093
Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Dielectric Strength, in oil, 3.2 mm	17	kV/mm	IEC 60243-1
Dissipation Factor, 50/60 Hz 0.001 - IEC 60250	Relative Permittivity, 50/60 Hz	2.7	-	IEC 60250
	Relative Permittivity, 1 MHz	2.7	-	IEC 60250
Dissipation Factor, 1 MHz 0.01 - IEC 60250	Dissipation Factor, 50/60 Hz	0.001	-	IEC 60250
	Dissipation Factor, 1 MHz	0.01	-	IEC 60250
Comparative Tracking Index 225 V IEC 60112	Comparative Tracking Index	225	V	IEC 60112

 Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
All properties, expect the melt volume rate are measured on injection moulded samples.
All samples are prepared according to ISO 294. 2) Only typical data for material selection purpose.Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
4) Own measurement according to UL.

Source, GMD, Last Update:03/14/2008

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TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
FLAME CHARACTERISTICS			
UL Recognized, 94V-2 Flame Class Rating (3)	1.5	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating (3)	3	mm	UL 94
Needle Flame Test, 10 s , passes at	1.5	mm	IEC 60695-2-2
Glow Wire Flammability Index 850°C, passes at	1	mm	IEC 60695-2-12
Glow Wire Flammability Index 960°C, passes at	1.6	mm	IEC 60695-2-12
Oxygen Index (LOI)	35	%	ISO 4589

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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	120	°C
Drying Time	2 - 4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	280 - 300	°C
Nozzle Temperature	270 - 290	°C
Front - Zone 3 Temperature	280 - 300	°C
Middle - Zone 2 Temperature	270 - 290	°C
Rear - Zone 1 Temperature	260 - 280	°C
Hopper Temperature	60 - 80	°C
Mold Temperature	80 - 100	°C

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Lexan* Resin 943A Europe-Africa-Middle East: COMMERCIAL



Note: Technical support is recommended if Gate Pressure is greater than 80 MPa. Contact your local representative. © Moldflow is a registered trademark of the Moldflow Corporation.

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