

THERMOPLASTIC POLYESTER RESIN

Rheological properties			
Moulding shrinkage, parallel Moulding shrinkage, normal	0.3 ° 1.1 °		ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus	7000	-	ISO 527-1/-2
Stress at break Strain at break	120 I 3.2 °		ISO 527-1/-2 ISO 527-1/-2
Charpy impact strength, 23°C		/J/m²	ISO 179/1eU
Charpy impact strength, -30°C		kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C Poisson's ratio	0.35	kJ/m²	ISO 179/1eA
	0.00		
Thermal properties			
Melting temperature, 10°C/min	224 9	-	ISO 11357-1/-3
Glass transition temperature, 10°C/min Temp. of deflection under load, 1.8 MPa	60 ° 205 °		ISO 11357-1/-3 ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	200 9		ISO 75-1/-2
Flammability			
FMVSS Class	B	mm/min	ISO 3795 (FMVSS 302)
FMVSS Class Burning rate, Thickness 1 mm		mm/min	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302)
		mm/min	
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm	28 r 0.15 °	%	ISO 3795 (FMVSS 302) Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm	28 r 0.15 ° 0.4 °	%	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm	28 r 0.15 °	%	ISO 3795 (FMVSS 302) Sim. to ISO 62
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Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density	28 r 0.15 ° 0.4 °	%	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Injection Drying Recommended Drying Temperature	28 1 0.15 9 0.4 9 1450 1 yes 120 9	% % kg/m³ °C	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer	28 1 0.15 0 0.4 0 1450 1 1450 2 120 0 2 - 4 1	% % kg/m³ °C h	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content	28 1 0.15 9 0.4 9 1450 1 yes 120 9	% % kg/m³ °C h %	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer	28 n 0.15 0 0.4 0 1450 h 120 0 2 - 4 h ≤0.04 0	% % kg/m³ °C h % °C	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density Drying Recommended Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature	28 n 0.15 0 0.4 0 1450 h 2 - 4 h ≤0.04 0 250 0 240 0	% % kg/m³ °C h % °C °C	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Mold Temperature Optimum	28 n 0.15 0 0.4 0 1450 k 1450 k 2 - 4 k ≤0.04 0 250 0 240 0 260 0 80 0	% % kg/m³ °C h % °C °C	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Mold Temperature Optimum Min. mould temperature	$\begin{array}{c} 0.15 & 0.$	% % kg/m³ °C h % °C °C °C	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Mold Temperature Optimum	28 n 0.15 0 0.4 0 1450 k 1450 k 2 - 4 k ≤0.04 0 250 0 240 0 260 0 80 0	% % kg/m³ °C h % °C °C °C °C °C	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62
Burning rate, Thickness 1 mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Mold Temperature Optimum Min. mould temperature Max. mould temperature	28 (0.15 (0.4 (1450 (1450 (2 - 4 (≤ 0.04 (250 (240 (260 (80 (30 (130 (≥ 60 (% % kg/m³ °C h % °C °C °C °C °C	ISO 3795 (FMVSS 302) Sim. to ISO 62 Sim. to ISO 62



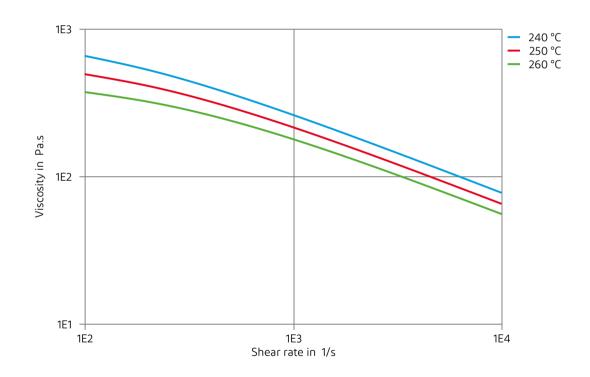
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Back pressure

Ejection temperature

As low as MPa possible 170 °C

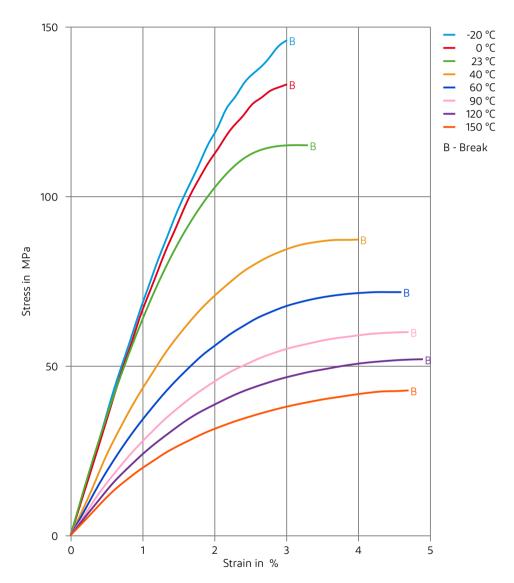
Viscosity-shear rate





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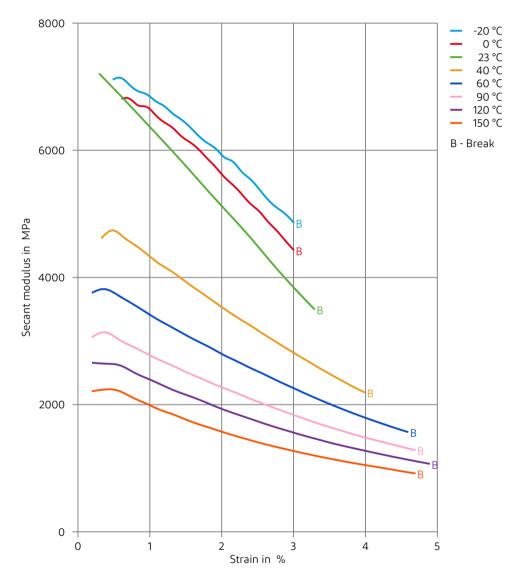
Stress-strain





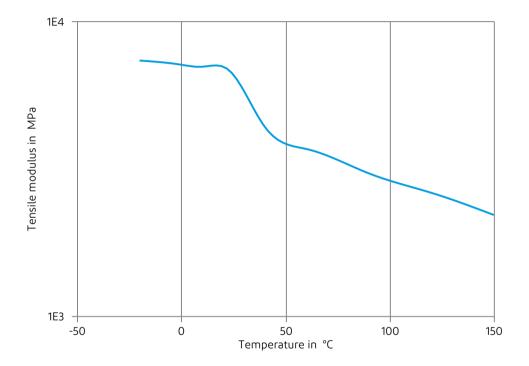
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Secant modulus-strain





Tensile modulus-temperature



Printed: 2023-01-06

Mobility & Materials

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