Dryflex®
TPV

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Dryflex V 60A101

General

Description	Thermoplastic Elastomer, TPV (EPDM-PP)
Colour	Black
Form	Free flowing pellets
Service Temperature	-50 to +135°C (unstressed material)
Recycling	100% Recyclable

Typical Properties

Property	Units	Typical Value	Test Method
Hardness	Shore A	60	ISO 868 [1]
Density	g/cm³	0.93	ISO 2781
Modulus at 100% Strain			
In flow	MPa	3.5	ISO 37
Across flow	MPa	2.0	ISO 37
Tensile Strength			
In flow	MPa	3.5	ISO 37
Across flow	MPa	5.5	ISO 37
Elongation at Break			
In flow	%	115	ISO 37
Across flow	%	520	ISO 37
Tear Strength			
In flow	N/mm	20	ISO 34 Method C
Across flow	N/mm	19	ISO 34 Method C
Compression set			
24 hours at 23°C	%	20.0	ISO 815 Type B
24 hours at 70°C	%	30.0	ISO 815 Type B
24 hours at 100°C	%	37.0	ISO 815 Type B
70 hours at 125°C	%	55.0	ISO 815 Type B
Heat Aging 7 days at 150°C			
Hardness Change	Shore A	+4	ISO 868 [1]
Tensile Change	%	+3	ISO 37 [2]
Elongation Change	%	-9	ISO 37 [2]

Typical values are advisory and do not absolve customers from carrying out their own full-scale tests to determine the suitability of the material for the intended applications. Dryflex grades have an expected shelf life of minimum 12 months after shipment date. The product should be stored in a dry and cool place in the manufacturer's original packaging. Figures are indicative and may vary depending on the specific grade selected and the production site. HEXPOL TPE makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Dryflex® is a registered trademark, property of the HEXPOL Group of companies.

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Typical Properties (Continued)

Property	Units	Typical Value	Test Method
Oil Resistance			
IRM 901 oil 7 days at 125°C			
Hardness Change	Shore A	-14	ISO 868 [1]
Tensile Change	%	-30	ISO 37 [2]
Elongation Change	%	-55	ISO 37 [2]
Volume Swell	%	+40	ASTM D 471
IRM 903 oil 7 days at 125°C			
Hardness Change	Shore A	-29	ISO 868 [1]
Tensile Change	%	-49	ISO 37 [2]
Elongation Change	%	-67	ISO 37 [2]
Volume Swell	%	+96	ASTM D 471
Viscosity			
Shear Rate 250/s	Pa.s	210	ASTM D 3835
Shear Rate 1000/s	Pa.s	66	ASTM D 3835
Shear Rate 5000/s	Pa.s	17	ASTM D 3835

[1] After 15 seconds

[2] Across the flow direction

Processing

The product should be stored in a dry and cool place in the manufacturer's original packaging. The material can be processed using standard thermoplastic processing methods. Additional processing information is available in our Processing Guides which can be downloaded at our website.

Processing Temperatures(°C)	Injection Moulding	Extrusion
Cylinder	180 - 210	150 - 210
Mould	15 - 50	
Predrying	80°C for 2-4 hours	

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