DSM Arnitel® PM650 General Purpose Grade Copolyester Elastomer (North America)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester TPE , Polyester, TP

Material Notes:

Product description: Arnitel® combines the advantages of engineering thermoplastics, being easy to process with excellent mechanical properties, at the same time with the flexibility of rubbers. Arnitel does not require vulcanization. This leads to substantial reductions in part cost. Arnitel can be used over a wide range of temperatures. Arnitel has exceptional fatigue, creep resistance and resistance to oils, greases and many other chemicals. Characteristics of Arnitel:Excellent strength over a wide range of temperaturesExcellent dynamic properties e.g. creep and fatigueHigh heat resistanceExceptional resistance to oils and greasesGood chemical resistanceHigh degree of versatility in processingEasy coloring using masterbatchesSurface quality from high gloss to texturedExcellent heat resistance (long term 165°C)Good electrical insulation propertiesLow moisture absorption, excellent dimensional stabilityEasy flow, fast cooling timesTypical Applications: Automotive: Arnitel® is extensively used in the automotive industry for applications requiring exceptional fatigue resistance and resistance to oil and greases. Examples are: Rack and Pinion Bellows, Constant Velocity Joint Boots (CVJ Boots), Air brake tubings. Arnitel in the Electronic and Consumer Goods Industry: Arnitel® finds enormous potential and is also widely used in consumer electronic companies. Arnitel® is a good choice for low noise gears where their exceptional processability without any defects such as flash, makes it the material solution of choice. Arnitel® is also used in highly demanding applications such as in mobile phone antennas. Arnitel® has exceptional flexibility and can perform or even outperform functions that normally require conventional rubbers. Available in a wide range of hardnesses, Arnitel can replace metals, thermoplastics, leather and rubber, often with a reduction in finished part costs. Information provided by DSM.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnitel-PM650-General-Purpose-Grade-Copolyester-Elastomer-North-America.php

Physical Properties	Metric	English	Comments	
Density	1.26 g/cc	0.0455 lb/in³	ISO 1183	
Melt Flow	5.04 g/10 min	5.04 g/10 min	Calculated from Volume Flow Rate of	
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	4 cm ³ /10 min; ISO 1133	

Mechanical Properties	Metric	English	Comments	
Hardness, Shore D	63	63	3 s; ISO 868	
Tensile Strength at Break	26.8 MPa	3890 psi	ISO 527-1/-2	
Tensile Strength, Yield	16.6 MPa	2410 psi	ISO 527-1/-2	
rensile Strength, Fleu	@Strain 5.00 %	@Strain 5.00 %		
	22.7 MPa	3290 psi	ISO 527-1/-2	
	@Strain 10.0 %	@Strain 10.0 %		
	25.5 MPa	3700 psi		

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Mechanical Properties	Metricin 100 %	English 100 %	ISO 527-17-2 Comments	
	25.6 MPa	3710 psi	ISO 527-1/-2	
	@Strain 50.0 %	@Strain 50.0 %		
Elongation at Break	175 %	175 %	ISO 527-1/-2	
Elongation at Yield	26.3 %	26.3 %	ISO 527-1/-2	
Tensile Modulus	0.520 GPa	75.4 ksi	ISO 527-1/-2	
Izod Impact, Notched (ISO)	8.00 kJ/m²	3.81 ft-lb/in ²	ISO 180/4A	
	@Temperature -20.0 °C	@Temperature -4.00 °F		
	37.0 kJ/m²	17.6 ft-lb/in ²	ISO 180/1A	
	@Temperature 23.0 °C	@Temperature 73.4 °F	130 100/ IA	
Charpy Impact, Notched	1.10 J/cm ²	5.24 ft-lb/in ²	ISO 179/1eA	
onarpy impact, notoned	@Temperature -30.0 °C	@Temperature -22.0 °F		
	3.70 J/cm ²	17.6 ft-lb/in ²	ISO 179/1eA	
	@Temperature 23.0 °C	@Temperature 73.4 °F		

Thermal Properties	Metric	English	Comments	
Melting Point	221 °C	430 °F	10°C/min; ISO 11357-1/-3	
Flammability, UL94	НВ	НВ	IEC 60695-11-10	
	@Thickness 1.60 mm	@Thickness 0.0630 in		

Descriptive Properties	Value	Comments
Film Extrusion	Yes	
High impact or impact modified	Yes	
Other Extrusion	Yes	
Profile extrusion	Yes	
Sheet extrusion	Yes	
Without Fillers	Yes	

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