

DSM Arnitel® EM740 74 Shore D, Extrusion 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 temperatures Excellent 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-EM740-74-Shore-D-Extrusion-Grade-Copolyester-Elastomer-North-America.php

Physical Properties	Metric	English	Comments	
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183	
Water Absorption	0.58 %	0.58 %	Sim. to ISO 62	
Moisture Absorption at Equilibrium	0.15 %	0.15 %	Humidity Absorption; Sim. to ISO 62	
Melt Flow	7.239 g/10 min	7.239 g/10 min	Calculated from Volume Flow Rate of	
	@Load 2.16 kg, Temperature 240 °C	@Load 4.76 lb, Temperature 464 °F	5.7 cm ³ /10 min; ISO 1133	

Mechanical Properties	Metric	English	Comments	
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/-2	
Elongation at Yield	20 %	20 %	ISO 527-1/-2	
Tensile Modulus	0.900 GPa	131 ksi	ISO 527-1/-2	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in²	ISO 179/1eA	
	@Temperature -30.0 °C	@Temperature -22.0 °F		



Mechanical Properties	Metric, cm²	English _{tb/in²}	Comments
			ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments	
CTE, linear, Parallel to Flow	140 μm/m-°C	77.8 μin/in-°F	ISO 11359-1/-2	
	@Temperature 20.0 °C	@Temperature 68.0 °F		
CTE, linear, Transverse to Flow	140 μm/m-°C	77.8 μin/in-°F	ISO 11359-1/-2	
	@Temperature 20.0 °C	@Temperature 68.0 °F		
Melting Point	221 °C	430 °F	10°C/min; ISO 11357-1/-3	
Vicat Softening Point	160 °C	320 °F	50°C/h 50N; ISO 306	
Flammability, UL94	НВ	НВ	IEC 60695-11-10	
	@Thickness 1.60 mm	@Thickness 0.0630 in		

Electrical Properties	Metric	English	Comments	
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093	
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093	
Dielectric Constant	3.4	3.4	IEC 60250	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
Dielectric Strength	23.0 kV/mm	584 kV/in	IEC 60243-1	
Dissipation Factor	0.040	0.040	IEC 60250	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
Comparative Tracking Index	600 V	600 V	IEC 60112	

Descriptive Properties	Value	Comments
High impact or impact modified	Yes	
Injection molding	Yes	
Other Extrusion	Yes	
Release Agent	Yes	
Without Fillers	Yes	

Contact Songhan Plastic Technology Co.,Ltd.



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