DSM Arnitel® UM622 General Purpose Grade Copolyester Elastomer (North America) (discontinued **)

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 the consumer electronics by some of the world's best companies. Arnitel® is the best 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-UM622-General-Purpose-Grade-Copolyester-Elastomer-North-America-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments	
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183	
Water Absorption	0.60 %	0.60 %	Sim. to ISO 62	
Moisture Absorption at Equilibrium	0.25 %	0.25 %	Humidity Absorption; Sim. to ISO 62	
Melt Flow	38.1 g/10 min	38.1 g/10 min	Calculated from Volume Flow Rate of 30 cm ³ /10 min; ISO 1133	
	@Load 2.16 kg, Temperature 240 °C	@Load 4.76 lb, Temperature 464 °F		

Mechanical Properties	Metric	English	Comments	
Hardness, Shore D	62	62	3 s; ISO 868	
Tensile Strength at Break	30.0 MPa	4350 psi	ISO 527-1/-2	
Tancila Strongth Vield	14.0 MPa	2030 psi	ISO 527-1/-2	
Tensile Strength, Yield	@Strain 5.00 %	@Strain 5.00 %		

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Mechanical Properties	19.0 MPa Metric	2760 psi English	Comments 2	
	@Strain 10.0 %	@Strain 10.0 %		
	21.0 MPa	3050 psi	150 507 1/ 0	
	@Strain 50.0 %	@Strain 50.0 %	ISO 527-1/-2	
Elongation at Break	325 %	325 %	ISO 527-1/-2	
Tensile Modulus	0.350 GPa	50.8 ksi	ISO 527-1/-2	
Izod Impact, Notched (ISO)	NB	NB	ISO 180/1A	
	@Temperature 23.0 °C	@Temperature 73.4 °F		
Charpy Impact Natabad	@Temperature 23.0 °C 0.600 J/cm ²	@Temperature 73.4 °F 2.86 ft-lb/in ²	150 170/164	
Charpy Impact, Notched			ISO 179/1eA	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA ISO 179/1eA	

Thermal Properties	Metric	English	Comments	
CTE, linear, Parallel to Flow	160 μm/m-°C	88.9 µin/in-°F	ISO 11359-1/-2	
	@Temperature 20.0 °C	@Temperature 68.0 °F		
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3	
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ISO 75-1/-2	
Vicat Softening Point	85.0 °C	185 °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
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Coating	Yes	
Film Extrusion	Yes	
Heat stabilized or stable to heat	Yes	
High impact or impact modified	Yes	
Injection molding	Yes	

Descriptive Properties de to light	Value	Comments
Other Extrusion	Yes	
Sheet extrusion	Yes	
U.V. stabilized or stable to weather	Yes	
Without Fillers	Yes	

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