DSM Arnitel® EB500 50 Shore D, Blow Molding 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-EB500-50-Shore-D-Blow-Molding-Grade-Copolyester-Elastomer-North-America-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in³	ISO 1183
Water Absorption	0.60 %	0.60 %	Sim. to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Humidity Absorption; Sim. to ISO 62
Melt Flow	4.72 g/10 min @Load 10.0 kg, Temperature 230 °C	4.72 g/10 min @Load 22.0 lb, Temperature 446 °F	Calculated from Volume Flow Rate of 4 cm³/10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	3 s; ISO 868
Tensile Strength at Break	26.5 MPa	3840 psi	ISO 527-1/-2
Tensile Strength, Yield	9.00 MPa @Strain 5.00 %	1310 psi @Strain 5.00 %	ISO 527-1/-2

Mechanical Properties	Metric	English	Comments
	12.6 MPa @Strain 10.0 %	1830 psi @Strain 10.0 %	ISO 527-1/-2
	19.5 MPa @Strain 50.0 %	2830 psi @Strain 50.0 %	ISO 527-1/-2
	23.5 MPa @Strain 100 %	3410 psi @Strain 100 %	ISO 527-1/-2
Elongation at Break	160 %	160 %	ISO 527-1/-2
Tensile Modulus	0.225 GPa	32.6 ksi	ISO 527-1/-2
Izod Impact, Notched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	ISO 180/1A
Charpy Impact, Notched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eA
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	215 °C	419 °F	10°C/min; ISO 11357-1/-3

Descriptive Properties	Value	Comments
Blow Molding	Yes	
Heat stabilized or stable to heat	Yes	
High impact or impact modified	Yes	
Without Fillers	Yes	

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