

DSM Arnitel® EB464 42 Shore D, Blow Molding 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-EB464-42-Shore-D-Blow-Molding-Grade-Copolyester-Elastomer-North-America.php

Physical Properties	Metric	English	Comments	
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183	
Water Absorption	0.70 %	0.70 %	Sim. to ISO 62	
Moisture Absorption at Equilibrium	0.30 %	0.30 %	Humidity Absorption; Sim. to ISO 62	
Melt Flow	12.1 g/10 min	12.1 g/10 min	Calculated from Volume Flow Rate of 10.5 cm ³ /10 min; ISO 1133	
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 lb, Temperature 446 °F		

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	41	41	3 s; ISO 868
Tensile Strength, Yield	3.60 MPa	522 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	130 321-17-2
	6.30 MPa	914 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	100 021 1, 2



Mechanical Properties	Metric Pa	English	Comments	
	@Strain 50.0 %	@Strain 50.0 %	,	
	14.4 MPa	2090 psi	ISO 527-1/-2	
	@Strain 100 %	@Strain 100 %		
Elongation at Break	>= 300 %	>= 300 %	ISO 527-1/-2	
Tensile Modulus	0.115 GPa	16.7 ksi	ISO 527-1/-2	
Izad Impact Notahad (ISO)	NB	NB	ISO 180/1A	
Izod Impact, Notched (ISO)	@Temperature 23.0 °C	@Temperature 73.4 °F	130 100/TA	
lead leave at Hereataked (ICO)	NB	NB	ISO 180/1A	
Izod Impact, Unnotched (ISO)	@Temperature -20.0 °C	@Temperature -4.00 °F	130 100/ IA	
Charmy Impact Natahad	NB	NB	ISO 179/1eA	
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	130 113/ TEA	
	NB	NB	ISO 179/1eA	
	@Temperature 23.0 °C	@Temperature 73.4 °F	IOO II 9/ ICA	
Graves Tear Strength	95.0 kN/m	542 pli	without nick; ISO 34	

Thermal Properties	Metric	English	Comments
Melting Point	210 °C	410 °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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