

DSM Arnitel® EM400-BP TPC-ET

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

Material Notes:

34 Shore D, Injection Molding or Extrusion Grade

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnitel-EM400-BP-TPC-ET.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Water Absorption	0.75 %	0.75 %	Sim. To ISO 62
Moisture Absorption	0.300 %	0.300 %	Sim. To ISO 62
Melt Flow	30 g/10 min @Load 2.16 kg, Temperature 230 °C	30 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	34 @Time 15.0 sec	34 @Time 0.00417 hour	ISO 868
Tensile Strength, Ultimate	25.0 MPa	3630 psi	ISO 527-1/-2
Tensile Stress	3.90 MPa @Strain 10.0 %	566 psi @Strain 10.0 %	ISO 527-1/-2
	7.50 MPa @Strain 100 %	1090 psi @Strain 100 %	ISO 527-1/-2
Tensile Modulus	0.0500 GPa	7.25 ksi	ISO 527-1/-2
Izod Impact Resistance	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/1A
Charpy Impact, Notched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eA
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	220 µm/m-°C	122 µin/in-°F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
Melting Point	195 °C	383 °F	10°C/min; ISO 11357-1/-3
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	IEC 60250
	4.1 @Frequency 100 Hz	4.1 @Frequency 100 Hz	IEC 60250
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60243-1
Dissipation Factor	0.0010 @Frequency 100 Hz	0.0010 @Frequency 100 Hz	IEC 60250
	0.017 @Frequency 1.00e+6 Hz	0.017 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

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