

DSM Arnitel® PM460-H TPC-ET

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

Material Notes:

Injection Molding, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnitel-PM460-H-TPC-ET.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Melt Flow	9.6 g/10 min @Load 2.16 kg, Temperature 230 °C	9.6 g/10 min @Load 4.76 lb, Temperature 446 °F	cm ³ /10min Melt Volume-flow Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45 @Time 3.00 sec	45 @Time 0.000833 hour	ISO 868
Tensile Strength, Ultimate	19.5 MPa	2830 psi	ISO 527-1/-2
Tensile Stress	5.40 MPa @Strain 5.00 %	783 psi @Strain 5.00 %	ISO 527-1/-2
	8.40 MPa @Strain 10.0 %	1220 psi @Strain 10.0 %	ISO 527-1/-2
	13.3 MPa @Strain 50.0 %	1930 psi @Strain 50.0 %	ISO 527-1/-2
	15.5 MPa @Strain 100 %	2250 psi @Strain 100 %	ISO 527-1/-2
Elongation at Break	205 %	205 %	ISO 527-1/-2
Tensile Modulus	0.120 GPa	17.4 ksi	ISO 527-1/-2
Izod Impact Resistance	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/1A
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 180/1A
Charpy Impact, Notched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	216 °C	421 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	65.0 °C	149 °F	ISO 75-1/-2

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