

DSM Arnite® TM4 440 (PBT+PET)-MD20

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET, Mineral Filled

Material Notes:

20% Mineral Reinforced

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnite-TM4-440-PBTPET-MD20.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	0.35 %	0.35 %	Sim. To ISO 62
Moisture Absorption	0.150 %	0.150 %	Sim. To ISO 62
Viscosity	17500 cP	17500 cP	
	@Shear Rate 100000 1/s, Temperature 280 °C	@Shear Rate 100000 1/s, Temperature 536 °F	
	20000 cP	20000 cP	
	@Shear Rate 100000 1/s, Temperature 250 °C	@Shear Rate 100000 1/s, Temperature 482 °F	
	25000 cP	25000 cP	
	@Shear Rate 100000 1/s, Temperature 230 °C	@Shear Rate 100000 1/s, Temperature 446 °F	
	200000 cP	200000 cP	
@Shear Rate 1.00 1/s, Temperature 280 °C	@Shear Rate 1.00 1/s, Temperature 536 °F		
500000 cP	500000 cP		
@Shear Rate 1.00 1/s, Temperature 250 °C	@Shear Rate 1.00 1/s, Temperature 482 °F		
1.15e+6 cP	1.15e+6 cP		
@Shear Rate 1.00 1/s, Temperature 230 °C	@Shear Rate 1.00 1/s, Temperature 446 °F		
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	57.0 MPa	8270 psi	ISO 527-1/-2

Mechanical Properties	Metric	English	Comments ²
Tensile Modulus	4.70 GPa	682 ksi	ISO 527-1/-2
Charpy Impact Unnotched	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.200 J/cm ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ISO 75-1/-2
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	IEC 60695-11-10

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