

DSM Arnite® T06 202 /A PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Medium Viscosity, Injection Molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnite-T06-202-A-PBT.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.45 %	0.45 %	Sim. To ISO 62
Moisture Absorption	0.180 %	0.180 %	Sim. To ISO 62
Viscosity	12500 cP	12500 cP	
	@Shear Rate 100000 1/s, Temperature 270 °C	@Shear Rate 100000 1/s, Temperature 518 °F	
	15000 cP	15000 cP	
	@Shear Rate 100000 1/s, Temperature 230 °C	@Shear Rate 100000 1/s, Temperature 446 °F	
	15000 cP	15000 cP	
	@Shear Rate 100000 1/s, Temperature 250 °C	@Shear Rate 100000 1/s, Temperature 482 °F	
	300000 cP	300000 cP	
	@Shear Rate 1.00 1/s, Temperature 270 °C	@Shear Rate 1.00 1/s, Temperature 518 °F	
	500000 cP	500000 cP	
	@Shear Rate 1.00 1/s, Temperature 250 °C	@Shear Rate 1.00 1/s, Temperature 482 °F	
	800000 cP	800000 cP	
	@Shear Rate 1.00 1/s, Temperature 230 °C	@Shear Rate 1.00 1/s, Temperature 446 °F	
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-1/-2

Mechanical Properties	Metric	English	Comments ²
Elongation at Yield	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.5	3.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	IEC 60243-1
	0.0020	0.0020	

Dissipation Factor Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	IEC 60250 Comments
	0.020	0.020	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

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