

DSM Arnite® TV4 461 (PBT+PET)-GF30

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

Material Notes:

30% Glass Reinforced

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnite-TV4-461-PBTPET-GF30.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	Sim. To ISO 62
Moisture Absorption	0.150 %	0.150 %	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	
	16000 cP	16000 cP	
	@Shear Rate 100000 1/s, Temperature 250 °C	@Shear Rate 100000 1/s, Temperature 482 °F	
	20000 cP	20000 cP	
	@Shear Rate 100000 1/s, Temperature 230 °C	@Shear Rate 100000 1/s, Temperature 446 °F	
	600000 cP	600000 cP	
	@Shear Rate 1.00 1/s, Temperature 270 °C	@Shear Rate 1.00 1/s, Temperature 518 °F	
	800000 cP	800000 cP	
	@Shear Rate 1.00 1/s, Temperature 250 °C	@Shear Rate 1.00 1/s, Temperature 482 °F	
	1.75e+6 cP	1.75e+6 cP	
	@Shear Rate 1.00 1/s, Temperature 230 °C	@Shear Rate 1.00 1/s, Temperature 446 °F	
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0032 cm/cm	0.0032 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	130 MPa	18900 psi	ISO 527-1/-2

Mechanical Properties	Metric	English	Comments ²
Tensile Modulus	9.90 GPa	1440 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.900 J/cm ²	4.28 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	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	225 °C	437 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	3.9	3.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.1	4.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0015	0.0015	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.016	0.016	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Comparative Tracking Index Electrical Properties	275 V Metric	275 V English	IEC 60112 Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China