

DSM Arnite® TV4 261 SF PBT-GF30 FR(17)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

30% Glass Reinforced, Flame Retardant, High Flow

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnite-TV4-261-SF-PBT-GF30-FR17.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 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	9000 cP	9000 cP	
	@Shear Rate 100000 1/s, Temperature 270 °C	@Shear Rate 100000 1/s, Temperature 518 °F	
	10000 cP	10000 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	
	1.00e+6 cP	1.00e+6 cP	
	@Shear Rate 1.00 1/s, Temperature 270 °C	@Shear Rate 1.00 1/s, Temperature 518 °F	
	2.00e+6 cP	2.00e+6 cP	
	@Shear Rate 1.00 1/s, Temperature 250 °C	@Shear Rate 1.00 1/s, Temperature 482 °F	
	3.50e+6 cP	3.50e+6 cP	
	@Shear Rate 1.00 1/s, Temperature 230 °C	@Shear Rate 1.00 1/s, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	130 MPa	18900 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus			ISO 527-1/-2

Mechanical Properties	11.0 GPa Metric	1600 ksi English	Comments
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.800 J/cm ²	3.81 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	35.0 µm/m-°C	19.4 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Glow Wire Test	960 °C	1760 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 °C	1760 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@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	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Dielectric Strength Electrical Properties	28.0 kV/mm Metric	711 kV/in English	IEC 60243-1 Comments
Dissipation Factor	0.0025	0.0025	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.014	0.014	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	300 V	300 V	IEC 60112

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