DSM Arnite® CCT GF30 (T-X01301) PBT-30% Glass Reinforced (European Grade) (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Arnite resins are engineered to provide specific performance in applications where DSM technology can offer value.Arnite Molding resins: Standard Unfilled and Reinforced materialsHigh modulus Flame retardant gradesEasy molding FR grades for connectorsToughened unfilled materials for durabilityHigh modulus, tight specification for critical auto componentsToughened reinforced resinsLow outgassing grades for reflector surfacesArnite extrusion resins: Specialized materials for specific usesPET for medical applicationsLoose buffer Optical fiber tubingPET for stock shapesApplicationsAutomotive:Connectors, sensors and E&E parts, Exterior fittings, Gear housings and motors, Brake valve bodiesElectrical & Electronic: Telecoms and IT connectors, Bobbins, Low voltage Power distribution, E-motor components, Lightings and Lamp fittingsConsumer Durables: Small AppliancesOther: Optical fiber tubingInformation provided by DSM.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DSM-Arnite-CCT-GF30-T-X01301-PBT-30-Glass-Reinforced-European-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in³	ISO 1183
Water Absorption	0.30 %	0.30 %	Sim. to ISO 62
Moisture Absorption at Equilibrium	0.15 %	0.15 %	Humidity Absorption; Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-1/-2
Elongation at Break	2.4 %	2.4 %	ISO 527-1/-2
Tensile Modulus	9.90 GPa	1440 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm² @Temperature -30.0 °C	21.4 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
	4.50 J/cm² @Temperature 23.0 °C	21.4 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm² @Temperature -30.0 °C	4.28 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
	0.900 J/cm² @Temperature 23.0 °C	4.28 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	40.0 µm/m-°C @Temperature 20.0 °C	22.2 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
	60.0 µm/m-°C @Temperature 20.0 °C	33.3 µin/in-°F @Temperature 68.0 °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 @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.9 @Frequency 1e+6 Hz	3.9 @Frequency 1e+6 Hz	IEC 60250
	4.1 @Frequency 100 Hz	4.1 @Frequency 100 Hz	IEC 60250
Dissipation Factor	0.0015 @Frequency 100 Hz	0.0015 @Frequency 100 Hz	IEC 60250
	0.016 @Frequency 1e+6 Hz	0.016 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	275 V	275 V	IEC 60112
	250 - 399 V	250 - 399 V	PLC 2; UL 746A

Descriptive Properties	Value	Comments
Injection molding	Yes	
Release Agent	Yes	
With Fillers	Yes	

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