

DuPont Performance Polymers Crastin® SK612SF NC010 PBT (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Crastin® SK612SF is a 15% glass fiber reinforced, low viscosity polybutylene terephthalate for injection molding. It has high flow characteristics and is specifically suitable for super fast production. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-SK612SF-NC010-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Filler Content	15 %	15 %	
Water Absorption	0.15 %	0.15 %	Equilibrium 50%RH; ISO 62, Similar to
	@Thickness 1.00 mm, Temperature 23.0 °C	@Thickness 0.0394 in, Temperature 73.4 °F	
Linear Mold Shrinkage, Flow	0.40 %	0.40 %	Saturation, immersed; ISO 62, Similar to
	@Thickness 1.00 mm, Temperature 23.0 °C	@Thickness 0.0394 in, Temperature 73.4 °F	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294-4
	0.0040 cm/cm	0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	@Thickness 2.00 mm	@Thickness 0.0787 in	
	0.011 cm/cm	0.011 in/in	ISO 294-4
Melt Index of Compound	0.011 cm/cm	0.011 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Melt Index of Compound	26 g/10 min	26 g/10 min	cm ³ /10 min; ISO 1133
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	
Melt Index of Compound	26 g/10 min	26 g/10 min	cm ³ /10 min; ISO 1133
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.3 %	3.3 %	

Elongation at Break Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 527 Comments
Tensile Modulus	6.00 GPa @Temperature 23.0 °C	870 ksi @Temperature 73.4 °F	ISO 527
Charpy Impact Unnotched	3.00 J/cm ² @Temperature -30.0 °C	14.3 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	500 µm/m-°C @Temperature 23.0 - 55.0 °C	278 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	9.50 µm/m-°C @Temperature 23.0 - 55.0 °C	5.28 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1/-2
Melting Point	224 °C	435 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-1/-2
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	IEC 60695-11-10
	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	IEC 60695-11-10
Oxygen Index	19 %	19 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm @Temperature 23.0 °C	>= 1.00e+15 ohm-cm @Temperature 73.4 °F	IEC 60093
Surface Resistance	1.00e+15 ohm @Temperature 23.0 °C	1.00e+15 ohm @Temperature 73.4 °F	IEC 60093
Dielectric Constant	3.5 @Frequency 1.00e+6 Hz, Temperature 23.0 °C	3.5 @Frequency 1.00e+6 Hz, Temperature 73.4 °F	IEC 60250
	4.1	4.1	IEC 60250

Electrical Properties	Metric @Frequency 100 Hz, Temperature 23.0 °C	English @Frequency 100 Hz, Temperature 73.4 °F	Comments
Dissipation Factor	0.0020 @Frequency 100 Hz, Temperature 23.0 °C	0.0020 @Frequency 100 Hz, Temperature 73.4 °F	IEC 60250
	0.020 @Frequency 1.00e+6 Hz, Temperature 23.0 °C	0.020 @Frequency 1.00e+6 Hz, Temperature 73.4 °F	IEC 60250
Comparative Tracking Index	350 V @Temperature 23.0 °C	350 V @Temperature 73.4 °F	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 °C	464 °F	Optimum; Injection Molding
	235 - 260 °C	455 - 500 °F	Injection Molding
Mold Temperature	80.0 °C	176 °F	optimum; Injection Molding
	30.0 - 130 °C	86.0 - 266 °F	Injection Molding
Drying Temperature	110 - 130 °C	230 - 266 °F	Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Injection Molding
Moisture Content	<= 0.040 %	<= 0.040 %	Injection Molding

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Drying Recommended	Yes	Injection Molding
Features	Flow, High	
	Laser markable	
	Molding Cycle, Fast	
	Viscosity, Low	
Filler	Glass fiber	
Forms	Pellets	
Generic	PBT	
Material Status	Preliminary Data	

Part Marking Code Descriptive Properties	-PBT-GF15- Value	ISO 11469 Comments
Processing Method	Injection Molding	
Product Category	Fast Cycle Resins	
	Fast Cycle Resins	
	Glass Reinforced Resins	
Region Available - Global	Yes	
Resin Identification	PBT-GF15	ISO 1043
RoHS Compliance	Contact Manufacturer	

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