

DuPont Performance Polymers Crastin® SK645FR BK851 PBT (Unverified Data**)

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

Material Notes:

Crastin® SK645FR BK851 is a flame retardant , 30% glass reinforced black polybutylene terephthalate molding resin. It is recognized as UL94V-0 at 0.75mm.Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-SK645FR-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in³	ISO 1183
Linear Mold Shrinkage, Flow	0.0044 cm/cm @Thickness 2.00 mm	0.0044 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0124 cm/cm @Thickness 2.00 mm	0.0124 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa @Temperature 23.0 °C	16500 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	2.6 % @Temperature 23.0 °C	2.6 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	10.33 GPa @Temperature 23.0 °C	1498 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	180 MPa @Temperature 23.0 °C	26100 psi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	5.00 J/cm² @Temperature 23.0 °C	23.8 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm² @Temperature 23.0 °C	3.81 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3
UL RTI, Electrical	140 °C	284 °F	UL 746B

Thermal Properties	@Thickness 0.750 mm Metric	@Thickness 0.0295 in English	Comments
UL RTI, Mechanical with Impact	125 °C @Thickness 0.750 mm	257 °F @Thickness 0.0295 in	UL 746B
UL RTI, Mechanical without Impact	140 °C @Thickness 0.750 mm	284 °F @Thickness 0.0295 in	UL 746B
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	UL94

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	80.0 °C	176 °F	optimum
	30.0 - 130 °C	86.0 - 266 °F	
Drying Temperature	110 - 130 °C	230 - 266 °F	
Moisture Content	<= 0.040 %	<= 0.040 %	

Descriptive Properties	Value	Comments
Appearance	Black Color	
Features	Flame Retardant	
Forms	Pellets	
Generic	PBT	
Material Status	Current	
Part Marking Code	>PBT-GF30(17)<	ISO 11469
Processing Method	Injection Molding	
Product Category	Flame Retardant Resins	
	Glass Reinforced Resins	
Region Available - Global	Yes	
Resin Identification	PBT-GF30(17)	ISO 1043
RoHS Compliance	Contact Manufacturer	

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