

DuPont Performance Polymers Crastin® SK642FR BK851 PBT (Unverified Data**)

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

Material Notes:

Crastin® SK642FR BK851 is a black 15% glass fiber reinforced, flame retardant polybutylene terephthalate for injection molding. It has a UL94 V-0 rating @ 0.75mm. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-SK642FR-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in³	ISO 1183
Filler Content	15 %	15 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	3.4 %	3.4 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	7.20 GPa	1040 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	155 MPa	22500 psi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	203 °C	397 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	116 °C	241 °F	ISO 75-1/-2
UL RTI, Electrical	140 °C	284 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	140 °C	284 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Thermal Properties	130 °C Metric	266 °F English	Comments
UL RTI, Mechanical with Impact	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical without Impact	130 °C	266 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	140 °C	284 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flammability, UL94	140 °C	284 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	32 %	32 %	ISO 4589-1/-2

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	
Filler	Glass Reinforced	
Forms	Pellets	
Generic	PBT	
Material Status	Current	
Part Marking Code	>PBT-GF15FR(17)<	ISO 11469

Descriptive Properties	Value	Comments
Processing Method	Injection Molding	
Product Category	Flame Retardant Resins	
	Glass Reinforced Resins	
Region Available - Global	Yes	
Resin Identification	PBT-GF15FR(17)	ISO 1043
RoHS Compliance	Contact Manufacturer	

Contact Songhan Plastic Technology Co.,Ltd.

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