

DuPont Performance Polymers Crastin® SK609 BK851 PBT (Unverified Data)**

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 50% Glass Fiber Filled

Material Notes:

Crastin® SK609 BK851 is a 50% glass fiber reinforced, lubricated, black polybutylene terephthalate resin for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-SK609-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	ISO 1183
Filler Content	50 %	50 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa @Temperature 23.0 °C	21000 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	1.7 % @Temperature 23.0 °C	1.7 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	15.7 GPa @Temperature 23.0 °C	2280 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	210 MPa @Temperature 23.0 °C	30500 psi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ² @Temperature 23.0 °C	5.23 ft-lb/in ² @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
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75-1/-2
UL RTI, Electrical	130 °C	266 °F	UL 746B

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
	130 °C	266 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
	130 °C	266 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	130 °C	266 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical with Impact	125 °C	257 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	125 °C	257 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	125 °C	257 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
	125 °C	257 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
UL RTI, Mechanical without Impact	130 °C	266 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
	130 °C	266 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	130 °C	266 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 °C	266 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	IEC 60695-11-10
	@Thickness 6.00 mm	@Thickness 0.236 in	

Thermal Properties	^{UL94} Metric	^{UL94} English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	UL94
	HB	HB	UL94
	@Thickness 6.00 mm	@Thickness 0.236 in	
	HB	HB	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	750 °C	1380 °F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 V	400 V	UL 746A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	500 V	500 V	IEC 60112
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Optimum
	260 - 270 °C	500 - 518 °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	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Moisture Content	<= 0.040 %	<= 0.040 %	

Descriptive Properties	Value	Comments
Additive	Lubricant	
Appearance	Black Color	
Drying Recommended	Yes	
Features	Chemical Resistance, Good	

Descriptive Properties	Value	Additional Stability, Good	Comments
	Lubricated		
	Moisture Absorption, Low		
	Processability, Good		
	Stiffness, High		
	Strength, High		
Filler	Glass fiber reinforcement		
Forms	Pellets		
Generic	PBT		
Material Status	Current		
Part Marking Code	>PBT-GF50<		ISO 11469
Polymer Family	Polyester		
Polymer Type	PBT		
Processing Method	Injection Molding		
Product Category	Glass Reinforced Resins		
Region Available - Global	Yes		
Resin Identification	PBT-GF50		ISO 1043
RoHS Compliance	Contact Manufacturer		
Uses	Automotive Applications		
	General Purpose		
	Industrial Applications		
	Parts, Engineering		
	Parts, Machine/Mechanical		
	Structural Parts		

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China