

DuPont Performance Polymers Crastin® SK605 BK851 PBT (Unverified Data**)

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

Material Notes:

Crastin® SK605 BK851 is a 30% 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-SK605-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Filler Content	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa @Temperature 23.0 °C	18900 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	2.5 % @Temperature 23.0 °C	2.5 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	9.60 GPa @Temperature 23.0 °C	1390 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	200 MPa @Temperature 23.0 °C	29000 psi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	6.50 J/cm ² @Temperature 23.0 °C	30.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ² @Temperature 23.0 °C	4.76 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)	205 °C	401 °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 1.50 mm	@Thickness 0.0591 in	
	130 °C	266 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
UL RTI, Mechanical with Impact	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	
	130 °C	266 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	130 °C	266 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
UL RTI, Mechanical without Impact	130 °C	266 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 °C	266 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	130 °C	266 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	130 °C	266 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 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	Metric	English	Comments
	@Thickness 6.00 mm	@Thickness 0.236 in	UL94
	HB	HB	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	20 %	20 %	ISO 4589-1/-2
Glow Wire Test	725 °C	1340 °F	IEC 60695-2-12
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	725 °C	1340 °F	IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	750 °C	1380 °F	Ignition; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	750 °C	1380 °F	Ignition; IEC 60695-2-13
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	800 °C	1470 °F	Ignition; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	825 °C	1520 °F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	250 °C	482 °F	Optimum
	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	
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	
	Dimensional Stability, Good	
	Lubricated	
	Moisture Absorption, Low	
	Processability, Good	
	Stiffness, Good	
	Strength, Good	
Filler	Glass fiber reinforcement	
Forms	Pellets	
Generic	PBT	
Material Status	Current	
Part Marking Code	>PBT-GF30<	ISO 11469
Polymer Family	Polyester	
Polymer Type	PBT	
Processing Method	Injection Molding	
Product Category	Glass Reinforced Resins	
Region Available - Global	Yes	
Resin Identification	PBT-GF30	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Automotive Applications	
	General Purpose	
	Industrial Applications	
	Parts, Engineering	
	Parts, Machine/Mechanical	

Descriptive Properties	Value Structural Parts	Comments
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