

DuPont Performance Polymers Crastin® S600F40 BK851 PBT (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Crastin® S600F40 BK851 is an unreinforced, lubricated, low viscosity, 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-S600F40-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.0 MPa @Temperature 23.0 °C	8410 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	20 % @Temperature 23.0 °C	20 % @Temperature 73.4 °F	nominal; ISO 527
	30 % @Temperature 23.0 °C	30 % @Temperature 73.4 °F	50mm/min; ISO 527
Elongation at Yield	6.0 % @Temperature 23.0 °C	6.0 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	2.60 GPa @Temperature 23.0 °C	377 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	85.0 MPa @Temperature 23.0 °C	12300 psi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m² @Temperature 23.0 °C	1.90 ft-lb/in² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact, Notched	0.450 J/cm² @Temperature 23.0 °C	2.14 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
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	Annealed; ISO 75-1/-2
UL RTI, Electrical	130 °C	266 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	130 °C	266 °F	
	@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	
	@Thickness 6.00 mm	@Thickness 0.236 in	
UL RTI, Mechanical with Impact	115 °C	239 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
	115 °C	239 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	115 °C	239 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	115 °C	239 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	120 °C	248 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	120 °C	248 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	120 °C	248 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	120 °C	248 °F	
	@Thickness 6.00 mm	@Thickness 0.236 in	
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 6.00 mm	@Thickness 0.236 in	
	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	UL94 V-0 60095-11-10
	HB	HB	UL94
	@Thickness 6.00 mm	@Thickness 0.236 in	
	HB	HB	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	UL94
	@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	
	Flow, High	
	Lubricated	
	Moisture Absorption, Low	
	Processability, Good	
	Viscosity, Low	
Forms	Pellets	

Descriptive Properties	Value	Comments
Material Status	Current	
Part Marking Code	>PBT<	ISO 11469
Processing Method	Injection Molding	
Product Category	Unreinforced Resins	
Region Available - Global	Yes	
Resin Identification	PBT	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Automotive Applications	
	Electrical Parts	
	Electrical/Electronic Applications	
	Industrial Applications	
	Parts, Engineering	
	Parts, Machine/Mechanical	
	Parts, Thin-walled	

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