

DuPont Performance Polymers Crastin® LW9320 BK851 PBT (Unverified Data**)

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

Material Notes:

Crastin® LW9320 BK851 is a 20% glass fiber reinforced, black polybutylene terephthalate alloy for injection molding. It has improved surface aesthetics, excellent dimensional stability and low warpage characteristics. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-LW9320-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Filler Content	20 %	20 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa @Temperature 23.0 °C	16700 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	2.3 % @Temperature 23.0 °C	2.3 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	7.30 GPa @Temperature 23.0 °C	1060 ksi @Temperature 73.4 °F	ISO 527
Izod Impact, Notched (ISO)	6.50 kJ/m ² @Temperature 23.0 °C	3.09 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	4.50 J/cm ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ² @Temperature 23.0 °C	3.33 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)	165 °C	329 °F	ISO 75-1/-2
UL RTI, Electrical	130 °C @Thickness 3.00 mm	266 °F @Thickness 0.118 in	UL 746B
	130 °C	266 °F	

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

Processing Properties	Metric	English	Comments
Melt Temperature	250 °C	482 °F	Optimum
	240 - 260 °C	464 - 500 °F	

Processing Properties	Metric	English	Comments
	30.0 - 130 °C	86.0 - 266 °F	
Drying Temperature	110 - 120 °C	230 - 248 °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	Appearance, Pleasing Surface	
	Chemical Resistance, Good	
	Dimensional Stability, Good	
	Moisture Absorption, Low	
	Processability, Good	
	Warp Resistant	
	Warpage, Low	
Filler	Glass fiber reinforcement	
Forms	Pellets	
Generic	PBT Alloy	
Material Status	Current	
Part Marking Code	>PBT+SAN-GF20<	ISO 11469
Polymer Family	Polyester	
Polymer Type	PBT	
Processing Method	Injection Molding	
Product Category	Glass Reinforced Resins	
	Low Warp Resins	
Region Available - Global	Yes	

Resin Identification Descriptive Properties	PBT+SAN-GF20 Value	ISO 1043 Comments
RoHS Compliance	Contact Manufacturer	
Uses	Automotive Applications	
	Housings	
	Industrial Applications	

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