

DuPont Performance Polymers Crastin® LW9030FR BK851 PBT (Unverified Data**)

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

Material Notes:

Crastin® LW9030FR BK851 is a 30% glass fiber reinforced, flame retardant, 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-LW9030FR-BK851-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Filler Content	30 %	30 %	

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	1.7 % @Temperature 23.0 °C	1.7 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	10.2 GPa @Temperature 23.0 °C	1480 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	160 MPa @Temperature 23.0 °C	23200 psi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	3.50 J/cm ² @Temperature 23.0 °C	16.7 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
UL RTI, Electrical	140 °C	284 °F	UL 746B

Thermal Properties	@Thickness 6.00 mm Metric	@Thickness 0.236 in English	Comments
	140 °C	284 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	140 °C	284 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	140 °C	284 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	140 °C	284 °F	UL 746B
	@Thickness 2.00 mm	@Thickness 0.0787 in	
UL RTI, Mechanical with Impact	125 °C	257 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	125 °C	257 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	125 °C	257 °F	UL 746B
	@Thickness 2.00 mm	@Thickness 0.0787 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 2.00 mm	@Thickness 0.0787 in	
	130 °C	266 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	140 °C	284 °F	UL 746B
	@Thickness 6.00 mm	@Thickness 0.236 in	
	140 °C	284 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Thermal Properties	Metric	English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	UL94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	V-0	V-0	UL94
	@Thickness 6.00 mm	@Thickness 0.236 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 6.00 mm	@Thickness 0.236 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	5VA	5VA	UL94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VA	5VA	IEC 60695-11-20
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VA	5VA	IEC 60695-11-10
	@Thickness 2.00 mm	@Thickness 0.0787 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	

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.040 %	<= 0.040 %	

Descriptive Properties	Value	Comments
Appearance	Black Color	
Drying Recommended	Yes	
Features	Appearance, Pleasing Surface	
	Chemical Resistance, Good	
	Dimensional Stability, Good	
	Flame Retardant	
	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+ASA-GF30FR(17)<	ISO 11469
Polymer Family	Polyester	
Polymer Type	PBT	
Processing Method	Injection Molding	
Product Category	Flame Retardant Resins	
	Glass Reinforced Resins	
	Low Warp Resins	
Region Available - Global	Yes	
Resin Identification	PBT+ASA-GF30FR(17)	ISO 1043
RoHS Compliance	Contact Manufacturer	

Descriptive Properties	Housings Value	Comments
Industrial Applications		

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