

DuPont Performance Polymers Crastin® ST830FRUV NC010 PBT (Unverified Data**)

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

Material Notes:

Crastin® ST830FRUV NC010 is an unreinforced, Super Tough, flame retardant polybutylene terephthalate resin for injection molding. It contains a UV light stabilizer and is recognized as UL94V-0 at 0.85mm (0.033in). Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-ST830FRUV-NC010-PBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.020 cm/cm @Thickness 2.00 mm	0.020 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.016 cm/cm @Thickness 2.00 mm	0.016 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa @Temperature 23.0 °C	5800 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	45 % @Temperature 23.0 °C	45 % @Temperature 73.4 °F	nominal; ISO 527
Elongation at Yield	9.0 % @Temperature 23.0 °C	9.0 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	2.20 GPa @Temperature 23.0 °C	319 ksi @Temperature 73.4 °F	ISO 527
Flexural Modulus	2.10 GPa @Temperature 23.0 °C	305 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature -40.0 °C	4.76 ft-lb/in ² @Temperature -40.0 °F	ISO 180/1A
	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	70.0 kJ/m ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A

Mechanical Properties	Metric /m ²	English lb/in ²	Comments
Izod Impact, Unnotched (ISO)			ISO 180/1U
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	220 kJ/m ²	105 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	35.0 J/cm ²	167 ft-lb/in ²	ISO 179/1eU
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	35.0 J/cm ²	167 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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)	125 °C	257 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-1/-2
UL RTI, Electrical	130 °C	266 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	130 °C	266 °F	UL 746B
	@Thickness 0.850 mm	@Thickness 0.0335 in	
	130 °C	266 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical with Impact	130 °C	266 °F	UL 746B

Thermal Properties	@Thickness 0.850 mm Metric	@Thickness 0.0335 in English	Comments
	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	
UL RTI, Mechanical without Impact	130 °C	266 °F	UL 746B
	@Thickness 0.850 mm	@Thickness 0.0335 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	
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 0.850 mm	@Thickness 0.0335 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 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	UL94
	@Thickness 0.850 mm	@Thickness 0.0335 in	
	V-0	V-0	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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

Processing Properties	Metric	English	Comments
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	Impact Modifier	
	Lubricant	
	UV Stabilizer	
Appearance	Natural Color	
Drying Recommended	Yes	
Features	Chemical Resistance, Good	
	Dimensional Stability, Good	
	Flame Retardant	
	Impact Resistance, High	
	Moisture Absorption, Low	
	Processability, Good	
	UV Resistance, Good	
Forms	Pellets	
Generic	PBT	
Material Status	Current	
Part Marking Code	>PBT-HIFR(17)<	ISO 11469
Processing Method	Injection Molding	
Product Category	Extrusion Resins	
	Flame Retardant Resins	
	Toughened Resins	
	UV Resistant/Weatherable Resins	
Resin Identification	PBT-HIFR(17)	ISO 1043

Descriptive Properties	Contact Manufacturer Value	Comments
Uses	Connectors	
	Electrical/Electronic Applications	

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