

DuPont Performance Polymers Crastin® T835FRUV NC010 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

Crastin® T835FRUV NC010 is a 5% glass fiber reinforced, toughened, flame retardant polybutylene terephthalate resin for injection molding. (precommercial code = Crastin® CE2402) Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-T835FRUV-NC010-PBT.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Filler Content	5.0 %	5.0 %	
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	Transverse
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.014 cm/cm	0.014 in/in	Flow
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	62.0 MPa	8990 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	5.0 %	5.0 %	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.0 %	5.0 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	3.40 GPa	493 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.20 GPa	464 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM D256

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
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
Izod Impact, Unnotched (ISO)	45.0 kJ/m ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U
Charpy Impact Unnotched	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ISO 75-1/-2
UL RTI, Electrical	130 °C @Thickness 0.800 mm	266 °F @Thickness 0.0315 in	UL 746B
	130 °C @Thickness 1.50 mm	266 °F @Thickness 0.0591 in	UL 746B
	130 °C @Thickness 3.00 mm	266 °F @Thickness 0.118 in	UL 746B
UL RTI, Mechanical with Impact	130 °C @Thickness 0.800 mm	266 °F @Thickness 0.0315 in	UL 746B
	130 °C @Thickness 1.50 mm	266 °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 0.800 mm	266 °F @Thickness 0.0315 in	UL 746B
	130 °C @Thickness 1.50 mm	266 °F @Thickness 0.0591 in	UL 746B
	130 °C @Thickness 3.00 mm	266 °F @Thickness 0.118 in	UL 746B

Thermal Properties Flammability, UL 94	Metric	English	Comments IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 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 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	UL94
	@Thickness 0.800 mm	@Thickness 0.0315 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
Appearance	Natural Color	
Drying Recommended	Yes	
Filler	Glass fiber reinforcement	
Generic	PBT	
Material Status	Current	
Part Marking Code	>PBT-IGF5FR(17)<	ISO 11469
Polymer Family	Polyester	

Polymer Type Descriptive Properties	PBT Value	Comments
Product Category	Flame Retardant Resins	
	Glass Reinforced Resins	
	Toughened Resins	
	UV Resistant/Weatherable Resins	
Resin Identification	PBT-IGF5FR(17)	ISO 1043
RoHS Compliance	Contact Manufacturer	

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