

DuPont Performance Polymers Rynite® FR530 BK507 Polyethylene Terephthalate (PET) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass Fiber Filled, Flame Retardant

Material Notes:

30% Glass Reinforced Flame Retardant Polyethylene Terephthalate Rynite FR530 BK507 is a 30% glass reinforced flame retardant modified polyethylene terephthalate resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-FR530-BK507-Polyethylene-Terephthalate-PET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-1/-2
Elongation at Break	1.9 %	1.9 %	ISO 527-1/-2
Tensile Modulus	11.3 GPa	1640 ksi	ISO 527-1/-2
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	10.5 GPa	1520 ksi	ISO 178
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	3.00 J/cm ² @Temperature -40.0 °C	14.3 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	0.800 J/cm ² @Temperature -40.0 °C	3.81 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 µm/m-°C	7.78 µin/in-°F	ISO 11359-1/-2
	20.0 µm/m-°C @Temperature -40.0 - 23.0 °C	11.1 µin/in-°F @Temperature -40.0 - 73.4 °F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
Resistance to Flow	73.0 µm/m-°C	40.6 µin/in-°F	
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	ISO 11359-1/-2
Melting Point	252 °C	486 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	243 °C	469 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ISO 75-1/-2
UL RTI, Electrical	155 °C	311 °F	UL 746B
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	155 °C	311 °F	UL 746B
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	155 °C	311 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flammability, UL94	V-2	V-2	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 0.300 mm	@Thickness 0.0118 in	
	5VA	5VA	IEC 60695-11-20
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	225 V	225 V	IEC 60112
	250 - 400 V	250 - 400 V	UL 746A

Descriptive Properties	Value	Comments
Part Marking Code	>PET-GF30FR<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	

Descriptive Properties	Near East/Africa Value	Comments
	North America	
	South and Central America	
Resin Identification	PET-GF30FR(17)	
UL recognition	UL	

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