

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

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

Material Notes:

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-PET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ISO 1183
Filler Content	30 %	30 %	
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 2.00 mm	0.0020 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Thickness 2.00 mm	0.0080 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa @Temperature 150 °C	6240 psi @Temperature 302 °F	ISO 527
	67.0 MPa @Temperature 90.0 °C	9720 psi @Temperature 194 °F	ISO 527
	130 MPa @Temperature 23.0 °C	18900 psi @Temperature 73.4 °F	ISO 527
	172 MPa @Temperature -40.0 °C	24900 psi @Temperature -40.0 °F	ISO 527
Elongation at Break	1.8 % @Temperature -40.0 °C	1.8 % @Temperature -40.0 °F	ISO 527
	1.9 % @Temperature 23.0 °C	1.9 % @Temperature 73.4 °F	ISO 527
	3.5 % @Temperature 90.0 °C	3.5 % @Temperature 194 °F	ISO 527
	4.0 %	4.0 %	ISO 527

Mechanical Properties	@Temperature 150 °C Metric	@Temperature 302 °F English	Comments
Tensile Modulus	3.65 GPa	529 ksi	ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
	5.90 GPa	856 ksi	ISO 527
	@Temperature 90.0 °C	@Temperature 194 °F	
	11.3 GPa	1640 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	12.0 GPa	1740 ksi	ISO 527
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	69.0 MPa	10000 psi	ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	107 MPa	15500 psi	ISO 178
	@Temperature 90.0 °C	@Temperature 194 °F	
	200 MPa	29000 psi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	262 MPa	38000 psi	ISO 178
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	2.65 GPa	384 ksi	ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	4.65 GPa	674 ksi	ISO 178
	@Temperature 90.0 °C	@Temperature 194 °F	
	10.5 GPa	1520 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.0 GPa	1600 ksi	ISO 178
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.50 kJ/m ²	4.04 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	@Temperature -40.0 °C	@Temperature -40.0 °F	ISO 180/1U
	35.0 kJ/m ²	16.7 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	40.0 kJ/m ²	19.0 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179/1eU
Charpy Impact Unnotched	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
Charpy Impact, Notched	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °F	
CTE, linear, Transverse to Flow	73.0 µm/m-°C	40.6 µin/in-°F	ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
	90.0 µm/m-°C	50.0 µin/in-°F	

Thermal Properties	@Temperature 23.0 - Metric 95.0 °C	@Temperature 73.4 - English 192 °F	ISO 11359-1/-2 Comments
	121 µm/m-°C	67.2 µin/in-°F	
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °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 0.350 mm	@Thickness 0.0138 in	
	155 °C	311 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	155 °C	311 °F	
UL RTI, Mechanical with Impact	155 °C	311 °F	UL 746B
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	155 °C	311 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	155 °C	311 °F	
UL RTI, Mechanical without Impact	155 °C	311 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	155 °C	311 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	155 °C	311 °F	
	155 °C	311 °F	UL 746B

Thermal Properties	@Thickness 2.00 mm Metric	@Thickness 0.0787 in English	Comments
	155 °C	311 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	UL94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	V-0	V-0	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	UL94
	@Thickness 0.350 mm	@Thickness 0.0138 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	225 V	225 V	IEC 60112
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	250 V	250 V	UL 746A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	250 - 400 V	250 - 400 V	UL 746A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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