

DuPont Performance Polymers Rynite® FR530L BK507 PET (Unverified Data**)

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

Material Notes:

Rynite® FR530L 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-FR530L-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 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	133 MPa @Temperature 23.0 °C	19300 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	1.9 % @Temperature 23.0 °C	1.9 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	11.3 GPa @Temperature 23.0 °C	1640 ksi @Temperature 73.4 °F	ISO 527
Flexural Modulus	10.5 GPa @Temperature 23.0 °C	1520 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	8.50 kJ/m ² @Temperature 23.0 °C	4.04 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U
Charpy Impact Unnotched	4.00 J/cm ² @Temperature 23.0 °C	19.0 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	252 °C	486 °F	10°C/min; ISO 11357-1/-3
	155 °C	311 °F	

UL RTI Electrical Thermal Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	UL 746B Comments
	155 °C	311 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	155 °C	311 °F	UL 746B
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	155 °C	311 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	155 °C	311 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	155 °C	311 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	155 °C	311 °F	UL 746B
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	155 °C	311 °F	UL 746B
	@Thickness 0.350 mm	@Thickness 0.0138 in	
UL RTI, Mechanical with Impact	155 °C	311 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	155 °C	311 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	155 °C	311 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	155 °C	311 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	155 °C	311 °F	UL 746B
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	155 °C	311 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	155 °C	311 °F	UL 746B
	@Thickness 2.00 mm	@Thickness 0.0787 in	
UL RTI, Mechanical without Impact	155 °C	311 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	Metric	English	Comments
	155 °C	311 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	155 °C	311 °F	UL 746B
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	155 °C	311 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	155 °C	311 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	155 °C	311 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	155 °C	311 °F	UL 746B
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Flammability, UL94	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 0.750 mm	@Thickness 0.0295 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 0.350 mm	@Thickness 0.0138 in	
	V-0	V-0	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	UL 94
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Thermal Properties	V-0 Metric	V-0 English	UL 94 Comments
	@Thickness 0.350 mm	@Thickness 0.0138 in	
	5VA	5VA	IEC 60695-11-20
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	5VA	5VA	IEC 60695-11-10
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VA	5VA	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	5VA	5VA	UL94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VA	5VA	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	800 °C	1470 °F	Ignition; IEC 60695-2-13
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	800 °C	1470 °F	Ignition; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	800 °C	1470 °F	Ignition; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	960 °C	1760 °F	IEC 60695-2-12

Thermal Properties	Metric	English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	985 °C	1810 °F	Ignition; IEC 60695-2-13
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	985 °C	1810 °F	Ignition; IEC 60695-2-13
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	985 °C	1810 °F	Ignition; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	200 V	200 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	

Processing Properties	Metric	English	Comments
Melt Temperature	280 °C	536 °F	Optimum
	270 - 290 °C	518 - 554 °F	
Mold Temperature	90.0 - 110 °C	194 - 230 °F	
	110 °C	230 °F	optimum
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	

Descriptive Properties	Value	Comments
Appearance	Black Color	
Drying Recommended	Yes	
Filler	Glass Reinforced	
Forms	Pellets	
Generic	PET	

Material Status Descriptive Properties	Current Value	Comments
Part Marking Code	>PET-GF30FR(17)<	ISO 11469
Polymer Family	Polyester	

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