

Rynite® FR530 BK507

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Flame Retardant, Polyethylene Terephthalate

General Information			
UL YellowCard	E41938-257735		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Agency Ratings	UL Unspecified Rating		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PET-GF30FR<		
Resin ID (ISO 1043)	PET-GF30FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.68	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11300	MPa	ISO 527-2
Tensile Stress (Break)	130	MPa	ISO 527-2
Tensile Strain (Break)	1.9	%	ISO 527-2
Flexural Modulus	10500	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	8.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	30	kJ/m ²	
23°C	40	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	243	°C	ISO 75-2/B
1.8 MPa, Unannealed	220	°C	ISO 75-2/A
Melting Temperature ¹	252	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.4E-5	cm/cm/°C	
Flow : -40 to 23°C	2.0E-5	cm/cm/°C	
Transverse	9.0E-5	cm/cm/°C	

Transverse : -40 to 23°C	7.3E-5	cm/cm/°C	
RTI Elec			UL 746
0.400 mm	155	°C	
0.750 mm	155	°C	
1.50 mm	155	°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 2		UL 746
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.350 mm	V-0		
	V-2		
1.50 mm	5VA		
NOTE			

1. 10°C/min

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