

Rynite® 530 BK503

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced Polyethylene Terephthalate

General Information			
UL YellowCard	E41938-257700		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Agency Ratings	UL Unspecified Rating		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PET-GF30<		
Resin ID (ISO 1043)	PET-GF30		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10200	MPa	ISO 527-2
Tensile Stress (Break)	150	MPa	ISO 527-2
Tensile Strain (Break)	2.1	%	ISO 527-2
Flexural Modulus	8940	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	8.0	kJ/m ²	
-30°C	8.5	kJ/m ²	
23°C	9.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	45	kJ/m ²	
23°C	52	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	8.5	kJ/m ²	
23°C	9.5	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-40°C	35	kJ/m ²	
23°C	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	244	°C	ISO 75-2/B
1.8 MPa, Unannealed	221	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Electric Strength	32	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	38	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.810 mm	HB		
1.50 mm	HB		

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