

Crastin® HR5330HF BK503

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Hydrolysis Resistant, Polybutylene Terephthalate

General Information			
UL YellowCard	E41938-500345		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PBT-IGF30<		
Resin ID (ISO 1043)	PBT-IGF30		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.30	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.35	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	65	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-40°C	8.0	kJ/m ²	
23°C	12	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	221	°C	ISO 75-2/B
1.8 MPa, Unannealed	207	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method

Comparative Tracking Index	275	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	30	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
NOTE			
1.	10°C/min		

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