

Crastin® HR5315HF BK503

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced, Hydrolysis Resistant, Polybutylene Terephthalate

General Information			
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PBT-IGF15<		
Resin ID (ISO 1043)	PBT-IGF15		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.50	%	
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5200	MPa	ISO 527-2
Tensile Stress (Break)	92.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	4700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-40°C	6.0	kJ/m ²	
23°C	10	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093

Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dissipation Factor			ASTM D150
1 kHz	3.0E-3		
1 MHz	0.015		
Comparative Tracking Index	325	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	32	mm/min	ISO 3795
Flammability Classification (0.750 mm)	HB		IEC 60695-11-10, -20
Oxygen Index	20	%	ISO 4589-2
NOTE			
1.	10°C/min		

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