

Crastin® HR5315HFS NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced, Hydrolysis Resistant, Polybutylene Terephthalate with Improved Processing

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Mold Release		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PBT-IGF15<		
Resin ID (ISO 1043)	PBT-IGF15		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	12.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.50	%	
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.40	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Break)	3.4	%	ISO 527-2
Flexural Stress	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	7.0	kJ/m²	
23°C	11	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	30	kJ/m²	
23°C	60	kJ/m²	

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
Glass Transition Temperature ¹	65.0	°C	ISO 11357-2
Melting Temperature ²	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
Electric Strength	36	kV/mm	IEC 60243-1
Dissipation Factor			IEC 60250
100 Hz	0.010		
1 MHz	0.010		
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	32	mm/min	ISO 3795
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Oxygen Index	20	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (250°C, 1000 sec ⁻¹)	175	Pa·s	ISO 11443
NOTE			
1.	10°C/min		
2.	10°C/min		

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