

Crastin® HR5315HF NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced, Hydrolysis Resistant, Polybutylene Terephthalate

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Mold Release		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)		
	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Tensile Modulus vs. Temperature (ISO 11403-1)		
	Tensile Modulus vs. Temperature, Dynamic (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	1.37	g/cm³	ISO 1183
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	%	
Viscosity Number	95.0	cm³/g	ISO 307
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5200	MPa	ISO 527-2
Tensile Stress (Break)	95.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1

1 hr	5000	MPa	
1000 hr	4200	MPa	
Flexural Modulus	4700	MPa	ISO 178
Flexural Stress	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	30	kJ/m ²	
23°C	60	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	6.0	kJ/m ²	
-30°C	10	kJ/m ²	
23°C	10	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-40°C	30	kJ/m ²	
-30°C	40	kJ/m ²	
23°C	45	kJ/m ²	
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
CLTE			ISO 11359-2
Flow	4.1E-5	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	26	kV/mm	IEC 60243-1
Dissipation Factor			ASTM D150, IEC 60250
100 Hz	0.010		
1 MHz	0.010		
Comparative Tracking Index	325	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Oxygen Index	20	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	
Melt Density	1.14	g/cm ³	
Specific Heat Capacity of Melt	1860	J/kg/°C	

Thermal Conductivity of Melt	0.26	W/m/K
NOTE		
1.	10°C/min	
2.	10°C/min	

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