

Crastin® HR5330HF NC010

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		
Additive	Mold Release		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	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)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PBT-IGF30<		
Resin ID (ISO 1043)	PBT-IGF30		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm³	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	%	
Viscosity Number	95.0	cm³/g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2
Tensile Stress (Break)	132	MPa	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2
Flexural Modulus	7700	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-30°C	12	kJ/m ²	
23°C	13	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-40°C	11	kJ/m ²	
23°C	14	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	65	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
Vicat Softening Temperature	215	°C	ISO 306/B50
Melting Temperature ¹	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	3.0E-5	cm/cm/°C	
Transverse	8.5E-5	cm/cm/°C	
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			IEC 60243-1
--	31	kV/mm	
1.00 mm ²	31	kV/mm	
Relative Permittivity (100 Hz)	4.40		IEC 60250
Dissipation Factor			
100 Hz	2.5E-3		ASTM D150, IEC 60250
1 kHz	7.0E-3		ASTM D150
1 MHz	0.020		ASTM D150, IEC 60250
Comparative Tracking Index	375	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		
Oxygen Index	19	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	
Melt Density	1.29	g/cm ³	
Specific Heat Capacity of Melt	1730	J/kg/°C	
Thermal Conductivity of Melt	0.28	W/m/K	
NOTE			
1.	10°C/min		
2.	Short Time		

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