DuPont[™] Crastin[®] PBT

thermoplastic polyester resin

Crastin® HR5330HF NC010

Crastin* HR5330HF is a 30% glass reinforced PBT with high flow (HF), moderately toughened, hydrolysis resistant (HR) resin. Excellent balance of properties between terminal pullout and impact resistance. Developed for USCAR Class 3 and 4 environments.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PBT-IGF30
Part Marking Code	ISO 11469		>PBT-IGF30<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	132 (19.1)
Strain at Break	ISO 527	%	3.5
Tensile Modulus	ISO 527	MPa (kpsi)	8400 (1220)
Flexural Modulus	ISO 178	MPa (kpsi)	7700 (1120)
Flexural Strength	ISO 178	MPa (kpsi)	200 (29.0)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	
-30°C (-22°F)			11.5
23°C (73°F)			13
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	75
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
0.45MPa			221 (430)
1.80MPa			207 (405)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			225 (437)

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm. Test temperatures are 23°C unless otherwise stated.

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For other medical applications see "DuPont Medical Caution Statement", H-50102.



Product Information

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Property	Test Method	Units	Value
Electrical			
Surface Resistivity	IEC 60093	ohm	6E15
Volume Resistivity	IEC 60093	ohm m	1E15
Electric Strength	IEC 60243-1	kV/mm (V/mil)	31 (790)
Dissipation Factor	IEC 60250	E-4	
1E3 Hz			70
1E6 Hz			200
Flammability			
Flammability Classification	IEC 60695-11-10		
0.75mm			НВ
Flammability Classification	UL94		
0.75mm			НВ
Other			
Density	ISO 1183	$kg/m^3 (g/cm^3)$	1500 (1.50)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			1.0
Parallel, 2.0mm			0.3
Processing			
Melt Temperature Range		°C (°F)	240-260 (465-500)
Melt Temperature Optimum		°C (°F)	250 (480)
Mold Temperature Range		°C (°F)	30-130 (85-265)
Mold Temperature Optimum		°C (°F)	80 (175)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	110-130 (230-265)
Processing Moisture Content		%	< 0.04

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