

DuPont™ Crastin® PBT

thermoplastic polyester resin

Crastin® HR5315HF BK503

Crastin® HR5315HF is a 15% 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-IGF15
Part Marking Code	ISO 11469		>PBT-IGF15<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	92 (13.3)
Strain at Break	ISO 527	%	3
Tensile Modulus	ISO 527	MPa (kpsi)	5200 (750)
Flexural Modulus	ISO 178	MPa (kpsi)	4700 (680)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	-30°C (-22°F)
			23°C (73°F)
			Unnotched Charpy Impact Strength
	ISO 179/1eU	kJ/m ²	50
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	0.45MPa
			1.80MPa
			Melting Temperature
	ISO 11357-1/-3	°C (°F)	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.

DuPont does not recommend the use of hot-runners with Crastin® HR resins. For additional information please contact your local technical representative.

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Property	Test Method	Units	Value
Electrical			
Surface Resistivity	IEC 60093	ohm	1E17
Volume Resistivity	IEC 60093	ohm m	>1E13
Relative Permittivity	IEC 60250		
1E3 Hz			3.8
1E6 Hz			3.7
Dissipation Factor	IEC 60250	E-4	
1E3 Hz			30
1E6 Hz			150
CTI	IEC 60112	V	325
Flammability			
Oxygen Index	ISO 4589-1/-2	%	20
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1370 (1.37)
Hardness, Rockwell	ISO 2039/2		
Scale R			117
Water Absorption	ISO 62, Similar to	%	
Immersion 24h			0.08
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			1.1
Parallel, 2.0mm			0.5
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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