DuPont™ Crastin® PBT

thermoplastic polyester resin

Crastin® HR5315HF NC010

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)	95 (13.8)
Strain at Break	ISO 527	%	3
Tensile Modulus	ISO 527	MPa (kpsi)	5200 (750)
Flexural Modulus	ISO 178	MPa (kpsi)	4700 (680)
Flexural Strength	ISO 178	MPa (kpsi)	150 (21.8)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	
-30°C (-22°F)			7
23°C (73°F)			10
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	60
Thermal			
Deflection Temperature	ISO 75f	°C (°F)	
0.45MPa			220 (430)
1.80MPa			200 (390)
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.

050421/050425

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Property	Test Method	Units	Value
Other			
Density	ISO 1183	kg/m^3 (g/cm^3)	1370 (1.37)
Hardness, Rockwell	ISO 2039/2		
Scale R			115
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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