

DuPont™ Crastin® PBT

thermoplastic polyester resin

Crastin® LW9320 NC010

Crastin® LW9320 NC010 is a 20% glass fiber reinforced polybutylene terephthalate alloy for injection molding. It has improved surface aesthetics, excellent dimensional stability and low warpage characteristics.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PBT+SAN-GF20
Part Marking Code	ISO 11469		>PBT+SAN-GF20<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	120 (17.4)
Strain at Break	ISO 527	%	2.5
Tensile Modulus	ISO 527	MPa (kpsi)	7400 (1070)
Flexural Modulus	ISO 178	MPa (kpsi)	6500 (940)
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	-30°C (-22°F)
			23°C (73°F)
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	175 (347)
1.80MPa			
Melting Temperature	ISO 11357-1/-3	°C (°F)	225 (437)
10°C/min			
Electrical			
CTI	UL 746A	V	500

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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Property	Test Method	Units	Value
Flammability			
Flammability Classification 0.75mm	IEC 60695-11-10		HB
Flammability Classification 0.75mm	UL94		HB
High Amperage Arc Ignition Resistance 0.75mm	UL 746A	arcs	>136
1.5mm			>139
3.0mm			>150
Hot Wire Ignition 0.75mm	UL 746A	s	11
1.5mm			20
3.0mm			28
Temperature Index			
RTI, Electrical 0.75mm	UL 746B	°C	130
RTI, Impact 0.75mm	UL 746B	°C	125
1.5mm			125
3.0mm			130
RTI, Strength 0.75mm	UL 746B	°C	130
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1340 (1.34)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.65
Parallel, 2.0mm			0.4

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Property	Test Method	Units	Value
Processing			
Melt Temperature Range		°C (°F)	240-260 (465-500)
Melt Temperature Optimum		°C (°F)	260 (500)
Mold Temperature Range		°C (°F)	30-130 (85-265)
Mold Temperature Optimum		°C (°F)	100 (210)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	110-120 (230-250)
Processing Moisture Content		%	<0.04
Snake Flow		mm (in)	
90MPa, 5x0.30mm			18 (0.7)
90MPa, 5x0.50mm			54 (2.1)
90MPa, 5x0.75mm			103 (4.1)
90MPa, 5x1.00mm			155 (6.1)

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