DuPont™ Crastin® PBT

thermoplastic polyester resin

Crastin® CE2055 BK580

Crastin® CE2055 is an unreinforced, low viscosity polybutylene terephthalate resin for injection molding.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PBT
Part Marking Code	ISO 11469		>PBT<
Mechanical			
Yield Stress	ISO 527	MPa (kpsi)	60 (8.7)
Strain at Break	ISO 527	%	
50mm/min			30
Nominal Strain at Break	ISO 527	%	15
Yield Strain	ISO 527	%	10
Tensile Modulus	ISO 527	MPa (kpsi)	2600 (380)
Flexural Strength	ISO 178	MPa (kpsi)	85 (12.3)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	3.5
Thermal			
Deflection Temperature	ISO 75f	°C (°F)	
0.45MPa			150 (302)
1.80MPa			55 (131)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			225 (437)
Rheological			
Melt Mass-Flow Rate	ISO 1133	g/10 min	
250°C, 2.16kg			50

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
Other			
Density	ISO 1183	kg/m^3 (g/cm^3)	1310 (1.31)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			1.8
Parallel, 2.0mm			2.0
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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