

DuPont™ Thermx® PCT

high performance polyester resin

Thermx® CG933 BK010

Thermx® CG933 BK010 is a 30% glass reinforced, flame retardant, black polycyclohexylenedimethylene terephthalate resin for injection molding.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PCT-GF30FR(17)
Part Marking Code	ISO 11469		>PCT-GF30FR(17)<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	108 (15.7)
Strain at Break	ISO 527	%	1.5
Tensile Modulus	ISO 527	MPa (kpsi)	10800 (1570)
Flexural Modulus	ISO 178	MPa (kpsi)	10000 (1450)
Flexural Strength	ISO 178	MPa (kpsi)	162 (23.5)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	6
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	25
Thermal			
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	245 (473)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	285 (545)
Flammability			
Flammability Classification 0.79mm	IEC 60695-11-10		V-2
1.5mm			V-0
Flammability Classification 0.79mm	UL94		V-2
1.5mm			V-0

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
Temperature Index			
RTI, Electrical 1.5mm	UL 746B	°C	150
RTI, Strength 1.5mm	UL 746B	°C	150
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1630 (1.63)
Processing			
Melt Temperature Range		°C (°F)	295-310 (565-590)
Melt Temperature Optimum		°C (°F)	300 (570)
Mold Temperature Range		°C (°F)	80-120 (175-250)
Mold Temperature Optimum		°C (°F)	100 (210)
Drying Time, Dehumidified Dryer		h	4-6
Drying Temperature		°C (°F)	95 (200)
Processing Moisture Content		%	<0.03

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