

# DuPont™ Thermx® PCT

high performance polyester resin

## Thermx® CGT33 NC010

Thermx® CGT33 NC010 is a 30% glass fiber reinforced, toughened polycyclohexylenedimethylene terephthalate resin for injection molding.

Property	Test Method	Units	Value
<b>Identification</b>			
Resin Identification	ISO 1043		PCT-IGF30
Part Marking Code	ISO 11469		>PCT-IGF30<
<b>Mechanical</b>			
Stress at Break	ISO 527	MPa (kpsi)	120 (17.4)
Strain at Break	ISO 527	%	2.8
Tensile Modulus	ISO 527	MPa (kpsi)	8400 (1220)
Flexural Modulus	ISO 178	MPa (kpsi)	7600 (1100)
Flexural Strength	ISO 178	MPa (kpsi)	180 (26.1)
Notched Izod Impact Strength	ISO 180/1A	kJ/m <sup>2</sup>	10
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	10
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m <sup>2</sup>	55
<b>Thermal</b>			
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	250 (482)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	285 (545)
<b>Flammability</b>			
Flammability Classification 1.5mm	IEC 60695-11-10		HB
Flammability Classification 1.5mm	UL94		HB

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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## Thermx® CGT33 NC010

Property	Test Method	Units	Value
<b>Other</b>			
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1440 (1.44)
<b>Processing</b>			
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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