

# DuPont™ Thermx® PCT

high performance polyester resin

## Thermx® CG043 NC010

Glass Reinforced High Performance Polyester Resin

Thermx® CG043 NC010 (formerly Thermx® CG043-0033L) is a 40% glass reinforced polycyclohexylenedimethylene terephthalate resin.

Property	Test Method	Units	Value
<b>Mechanical</b>			
Tensile Strength at Break	ASTM D 638	MPa (kpsi)	128 (18.5)
Elongation at Break	ASTM D 638	%	1.9
Flexural Modulus	ASTM D 790	MPa (kpsi)	11000 (1610)
Flexural Strength	ASTM D 790	MPa (kpsi)	200 (29)
Izod Impact	ASTM D 256	J/m (ft lb/in)	75 (1.4)
Unnotched Impact	ASTM D 4812	J/m (ft lb/in)	800 (15)
<b>Thermal</b>			
Heat Deflection Temperature 0.45MPa (66psi) 1.8MPa (264psi)	ASTM D 648	°C (°F)	280 (536) 265 (510)
<b>Other</b>			
Specific Gravity	ASTM D 792		1.55
<b>Processing</b>			
Melt Temperature Range		°C (°F)	295 - 310 (565 - 590)
Mold Temperature Range		°C (°F)	80 - 120 (175 - 250)
Drying Time, Dehumidified Dryer		h	4 - 6
Drying Temperature		°C (°F)	95 (200)

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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