

Product Texts

Zytel® HTNFR52G45NHF NC010 is a 45% Glass Reinforced, Flame Retardant, High Performance Polyamide with improved flow. It is also a PPA resin and it uses a non-halogenated flame retardant.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	15500 / -	MPa	ISO 527
^[C] Stress at break	167 / -	MPa	ISO 527
^[C] Strain at break	1.7 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	48 / -	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	45 / -	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	8 / -	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8 / -	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	90 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	284 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	15 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	50 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4.7 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4.4 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	60 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	115 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
^[C] Electric strength	40 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Density	1600 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America

Special Characteristics

Flame retardant, Halogen-free

Other text information

Injection molding

For molding machine components, use corrosion resistant and wear resistant steel. For details please contact our representative. Limit the residence time of the resin in the machine. Use proper protective equipment and adequate ventilation.