

DuPont™ Zytel® HTN

high performance polyamide resin

PRELIMINARY DATA

Zytel® HTNFE250020 NC010

Zytel® HTNFE250020 NC010 is a 30% mineral reinforced, toughened high performance polyamide resin. It is also a PPA resin

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Part Marking Code	ISO 11469		>PA6T/XT-IMD30<	
Part Marking Code	SAE J1344		>PPA-IMD30<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	98 (14.2)	94 (13.6)
Strain at Break	ISO 527	%	4	4
Tensile Modulus	ISO 527	MPa (kpsi)	4700 (681)	5300 (768)
Notched Charpy Impact Strength -30°C (-22°F) 23°C (73°F)	ISO 179/1eA	kJ/m ²	3	3
			5	4
Unnotched Charpy Impact Strength -30°C (-22°F) 23°C (73°F)	ISO 179/1eU	kJ/m ²	50	45
			90	60
Thermal				
Deflection Temperature 1.80MPa	ISO 75-1/-2	°C (°F)	143 (289)	
Melting Temperature 10°C/min, First Heat	ISO 11357-1/-3	°C (°F)	300 (572)	

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.

During molding, use proper protective equipment and adequate ventilation. Avoid exposure to fumes and limit the hold up time and temperature of the resin in the machine. Purge degraded resin carefully with HDPE.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots

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Property	Test Method	Units	Value	
			DAM	50%RH
Electrical				
Surface Resistivity	IEC 60093	ohm	>1E15	
Volume Resistivity	IEC 60093	ohm m	>1E13	
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1400 (1.40)	
Molding Shrinkage	ISO 294-4	%		
Normal, 2.0mm			0.7	
Parallel, 2.0mm			0.6	
Processing				
Melt Temperature Range		°C (°F)	320-330 (610-625)	
Melt Temperature Optimum		°C (°F)	325 (620)	
Mold Temperature Range		°C (°F)	140-160 (284-320)	
Mold Temperature Optimum		°C (°F)	150 (300)	
Drying Time, Dehumidified Dryer		h	6-8	
Drying Temperature		°C (°F)	100 (210)	

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