

Zytel® HTN FE8200 NC010

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

Unreinforced, Toughened, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-234560		
Additive		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		Lubricated		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA6T/XT-I<		
Part Marking Code (SAE J1344)		>PPA-I<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.80	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	6.3	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2190	2300	MPa	ISO 527-2
Tensile Stress (Yield)	62.0	68.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.5	4.4	%	ISO 527-2
Nominal Tensile Strain at Break	14	10	%	ISO 527-2
Flexural Modulus	2000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength (23°C)	75	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180/1A
-40°C	18	--	kJ/m ²	
23°C	75	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	203	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	126	--	°C	ISO 75-2/A
Melting Temperature ¹	300	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	9.0E-5	--	cm/cm/°C	
Flow : -40 to 23°C	9.0E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Transverse : -40 to 23°C	9.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
NOTE				
1.	First Heat			

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