

Zytel® HTN 54G15HSLR NC010

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced, Toughened, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-502428		
Filler / Reinforcement		Glass Fiber, 15% Filler by Weight		
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
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)		>PA-IGF15<		
Part Marking Code (SAE J1344)		>PPA-IGF15<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.40	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5600	5500	MPa	ISO 527-2
Tensile Stress (Break)	130	100	MPa	ISO 527-2
Tensile Strain (Break)	3.7	2.7	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	5500	MPa	
1000 hr	--	5000	MPa	
Flexural Modulus	4900	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	60	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	280	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	235	--	°C	ISO 75-2/A
Melting Temperature ¹	300	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.8E-5	--	cm/cm/°C	
Flow : -40 to 23°C	3.2E-5	--	cm/cm/°C	
Transverse	7.0E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	7.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	17	--	kV/mm	IEC 60243-1
Dissipation Factor				IEC 60250
100 Hz	0.015	--		
1 MHz	0.015	--		
Comparative Tracking Index	575	575	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.800 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	23	--	%	ISO 4589-2
NOTE				

1. First Heat

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