

Zytel® HTN 54G35HSLR BK031

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced, Toughened, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-234562		
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Agency Ratings		UL Unspecified Rating		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA-IGF35<		
Part Marking Code (SAE J1344)		>PPA-IGF35<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10500	10800	MPa	ISO 527-2
Tensile Stress (Break)	180	166	MPa	ISO 527-2
Tensile Strain (Break)	3.0	2.7	%	ISO 527-2
Flexural Modulus	9300	9500	MPa	ISO 178
Flexural Stress	280	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	9.0	9.0	kJ/m²	
-30°C	10	9.0	kJ/m²	
23°C	12	11	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	75	65	kJ/m²	
23°C	85	70	kJ/m²	

Notched Izod Impact Strength (23°C)	12	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	283	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/A
Melting Temperature ¹	300	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Flow : -40 to 23°C	2.0E-5	--	cm/cm/°C	
Transverse	6.8E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	6.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	43	42	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
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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