

Zytel® 80G14AHS NC010

NYLON RESIN
DuPont Performance Polymers

Message:
14% Glass Reinforced, Toughened, Heat Stabilized, Polyamide 66

General Information				
UL YellowCard		E41938-100313886		
Filler / Reinforcement		Glass Fiber,14% Filler by Weight		
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
Forms		Pellets		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-IGF14<		
Resin ID (ISO 1043)		PA66-IGF14		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.70	--	%	
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	1.9	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5000	3300	MPa	ISO 527-2
Tensile Stress (Break)	110	72.0	MPa	ISO 527-2
Tensile Strain (Break)	3.8	9.0	%	ISO 527-2
Flexural Modulus	4400	3120	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	--	6.0	kJ/m ²	
-30°C	9.0	7.0	kJ/m ²	
23°C	13	17	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	71	kJ/m ²	
23°C	73	76	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A

-40°C	6.0	--	kJ/m ²	
23°C	13	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	221	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Vicat Softening Temperature	215	--	°C	ISO 306/B50
Melting Temperature ¹	263	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	4.0E-5	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Dissipation Factor (100 Hz)	0.027	0.018		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	44	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
NOTE				
1.	10°C/min			

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