Zytel® 80G14A NC010A

NYLON RESIN

DuPont Performance Polymers

Message:

14% Glass Reinforced, Toughened, Polyamide 66

General Information	
Filler / Reinforcement	Glass Fiber,14% Filler by Weight
Additive	Mold Release
Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1) Tensile Modulus vs. Temperature (ISO 11403-1)
Part Marking Code (ISO 11469)	>PA66-IGF14<
Resin ID (ISO 1043)	PA66-IGF14

Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.70	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	6.2	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.8	--	%	
Viscosity Number	137	--	cm³/g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4800	3400	MPa	ISO 527-2
Tensile Stress (Break)	108	66.0	MPa	ISO 527-2
Tensile Strain (Break)	3.8	10	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	3100	MPa	
1000 hr	--	2500	MPa	
Flexural Modulus	4400	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	--	6.0	kJ/m²	
-30°C	10	7.0	kJ/m²	
23°C	13	17	kJ/m²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	71	kJ/m²	
23°C	70	76	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	6.0	--	kJ/m²	
23°C	13	--	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	258	--	°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**
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	36	37	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.80	7.30		
1 MHz	3.50	3.90		
Dissipation Factor				IEC 60250
100 Hz	0.027	0.018		
1 MHz	0.058	0.058		
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate [2] (1.00 mm)	44	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
Fill Analysis	**Dry**	**Conditioned**	**Unit**	
Specific Heat Capacity of Melt	2350	--	J/kg/°C	
Thermal Conductivity of Melt	0.19	--	W/m/K	
Effective Thermal Diffusivity	0.0809	--	cSt	
NOTE				
1.	10°C/min			

2.	DS

Recommended distributors for this material

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