

Zytel® 80G33HS1L BK104

NYLON RESIN
DuPont Performance Polymers

Message:
33% Glass Reinforced, Toughened, Heat Stabilized, Polyamide 66

General Information				
UL YellowCard		E41938-234426		
Filler / Reinforcement		Glass Fiber,33% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Processing Method		Injection Molding		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA66-IGF33<		
Resin ID (ISO 1043)		PA66-IGF33		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.33	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Water Absorption (24 hr)	0.91	--	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8800	6500	MPa	ISO 527-2
Tensile Stress (Break)	148	112	MPa	ISO 527-2
Tensile Strain (Break)	3.6	6.6	%	ISO 527-2
Flexural Modulus	7600	--	MPa	ISO 178
Flexural Stress	214	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	18	--	kJ/m ²	
-30°C	18	17	kJ/m ²	
23°C	20	27	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	110	97	kJ/m ²	
23°C	97	96	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	15	--	kJ/m ²	
-30°C	17	16	kJ/m ²	

23°C	21	26	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	261	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	--	°C	ISO 75-2/A
Melting Temperature ¹	262	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.750 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned	Unit	Test Method
Emission of Organic Compounds	25.3	--	µgC/g	VDA 277
Odor	3	--		VDA 270
NOTE				
1.	10°C/min			

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