

Zytel® 77G33L BK031

NYLON RESIN
DuPont Performance Polymers

Message:
33% Glass Reinforced Polyamide 612

General Information				
UL YellowCard		E41938-234360		
Filler / Reinforcement		Glass Fiber,33% Filler by Weight		
Agency Ratings		UL Unspecified Rating		
Processing Method		Injection Molding		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA612-GF33<		
Resin ID (ISO 1043)		PA612-GF33		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				
Flow : 3.20 mm	0.20	--	%	Internal Method
Across Flow : 3.20 mm	1.0	--	%	Internal Method
Across Flow	0.90	--	%	ISO 294-4
Flow	0.30	--	%	ISO 294-4
Viscosity Number (96% H2SO4 (Sulphuric Acid))	83.0	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	7900	MPa	ISO 527-2
Tensile Stress (Break)	168	140	MPa	ISO 527-2
Tensile Strain (Break)	3.0	3.2	%	ISO 527-2
Flexural Modulus	8200	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	12	--	kJ/m ²	
23°C	13	--	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	11	--	kJ/m ²	
23°C	13	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	65.0	--	°C	ISO 11357-2
Melting Temperature ²	218	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Flow : -40 to 23°C	2.6E-5	--	cm/cm/°C	
Flow : 55 to 160°C	1.4E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Transverse : -40 to 23°C	8.3E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	1.6E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.710 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			
2.	10°C/min			

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