

Zytel® FG77G33L NC010

NYLON RESIN
DuPont Performance Polymers

Message:
33% Glass Reinforced Polyamide 612 with Developed for Food Contact Applications

General Information				
UL YellowCard		E41938-234360		
Filler / Reinforcement		Glass Fiber,33% Filler by Weight		
Additive		Mold Release		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
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				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Water Absorption				
24 hr	0.30	--	%	ASTM D570
23°C, 24 hr, 2.00 mm	1.8	--	%	ISO 62
Equilibrium, 23°C, 2.00 mm, 50% RH	0.70	--	%	ISO 62
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)	3.2	3.2	%	ISO 527-2
Flexural Modulus	8200	7000	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	12	10	kJ/m ²	
-30°C	11	10	kJ/m ²	
23°C	13	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	65	kJ/m ²	
23°C	80	90	kJ/m ²	

Notched Izod Impact Strength				ISO 180/1A
-40°C	11	10	kJ/m ²	
-30°C	11	10	kJ/m ²	
23°C	13	12	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	60	45	kJ/m ²	
23°C	70	60	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	216	--	°C	ISO 75-2/B
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	1.7E-5	--	cm/cm/°C	
Flow : -40 to 23°C	2.6E-5	--	cm/cm/°C	
Flow : 55 to 160°C	1.6E-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	
Fill Analysis	Dry	Conditioned	Unit	
Specific Heat Capacity of Melt	2130	--	J/kg/°C	
Thermal Conductivity of Melt	0.26	--	W/m/K	
NOTE				
1.	10°C/min			
2.	10°C/min			

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