

Zytel® 77G43L NC010

NYLON RESIN
DuPont Performance Polymers

Message:
43% Glass Reinforced Polyamide 612

General Information				
UL YellowCard		E41938-234361		
Filler / Reinforcement		Glass Fiber,43% Filler by Weight		
Additive		Lubricant		
		Mold Release		
Features		Lubricated		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA612-GF43<		
Resin ID (ISO 1043)		PA612-GF43		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	1.7	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.70	--	%	
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	118	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12500	11500	MPa	ISO 527-2
Tensile Stress (Break)	200	165	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Flexural Modulus	11000	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	17	--	kJ/m ²	
-30°C	17	13	kJ/m ²	
23°C	17	14	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	80	kJ/m ²	
23°C	100	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	15	--	kJ/m ²	
23°C	17	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	217	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	203	--	°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	1.0E-5	--	cm/cm/°C	
Flow : -40 to 23°C	2.1E-5	--	cm/cm/°C	
Flow : 55 to 160°C	1.6E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Transverse : -40 to 23°C	7.3E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	1.4E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.710 mm	HB	--		
1.50 mm	HB	--		
NOTE				
1.	10°C/min			
2.	10°C/min			

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