

Zytel® 77G43L BK031

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		
Agency Ratings	UL Unspecified Rating		
Processing Method	Injection Molding		
Multi-Point Data	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PA612-GF43<		
Resin ID (ISO 1043)	PA612-GF43		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12500	MPa	ISO 527-2
Tensile Stress (Break)	200	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	11000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	16	kJ/m²	
23°C	17	kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	15	kJ/m²	
23°C	17	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	217	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Melting Temperature ¹	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
Flammability	Nominal Value	Test Method
Flammability Classification (0.710 mm)	HB	IEC 60695-11-10, -20
NOTE		
1.	10°C/min	

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