

Zytel® 80G43HS1L BK104

NYLON RESIN
DuPont Performance Polymers

Message:
43% Glass Reinforced, Toughened, Heat Stabilized, Polyamide 66

General Information				
Filler / Reinforcement		Glass Fiber,43% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		Lubricated		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA66-IGF43<		
Resin ID (ISO 1043)		PA66-IGF43		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.43	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	4.9	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.5	--	%	
Viscosity Number	137	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11700	--	MPa	ISO 527-2
Tensile Stress				
Break	169	--	MPa	ISO 527-2
23°C	--	117	MPa	ASTM D638
Tensile Elongation				
Break, 23°C	--	4.0	%	ASTM D638
Break	3.3	--	%	ISO 527-2

Flexural Modulus				
23°C	--	6900	MPa	ASTM D790
--	10300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	15	--	kJ/m ²	
23°C	23	--	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)				ISO 179/1eU
	90	--	kJ/m ²	
Notched Izod Impact				
23°C	--	270	J/m	ASTM D256
-40°C	14	--	kJ/m ²	ISO 180/1A
23°C	23	--	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)				ISO 180/1U
	78	--	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	250	--	°C	ISO 75-2/A
Vicat Softening Temperature	215	--	°C	ISO 306/B50
Melting Temperature ¹	262	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	27	--	%	ISO 4589-2
NOTE				
1.	10°C/min			

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