

Zytel® 70G35HSLRA4 BK267

NYLON RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced, Heat Stabilized, Hydrolysis Resistant, Polyamide 66

General Information				
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		Lubricated		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Creep Modulus vs. Time (ISO 11403-1)		
		Isochronous Stress vs. Strain (ISO 11403-1)		
		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA66-GF35<		
Resin ID (ISO 1043)		PA66-GF35		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	5.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.7	--	%	
Viscosity Number	130	--	cm ³ /g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	8000	MPa	ISO 527-2
Tensile Stress (Break)	210	140	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	7400	MPa	
1000 hr	--	5000	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	10	kJ/m ²	
23°C	15	18	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	75	kJ/m ²	
23°C	80	95	kJ/m ²	
Notched Izod Impact Strength (23°C)	14	16	kJ/m ²	ISO 180/1A
Multi-Axial Instrumented Impact Energy (23°C)	6.00	--	J	ISO 6603-2
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	80.0	--	°C	ISO 11357-2
Vicat Softening Temperature	255	--	°C	ISO 306/B50
Melting Temperature ²	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.7E-5	--	cm/cm/°C	
Transverse	8.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Comparative Tracking Index	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	18	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.700 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	21	--	%	ISO 4589-2
Fill Analysis	Dry	Conditioned	Unit	Test Method

Melt Density	1.27	--	g/cm ³
Specific Heat Capacity of Melt	2300	--	J/kg/°C
Thermal Conductivity of Melt	0.22	--	W/m/K
Odor	4	--	VDA 270

NOTE

1. 10°C/min
2. 10°C/min

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

