Zytel® 80G33L NC010

NYLON RESIN

DuPont Performance Polymers

Message:

33% Glass Reinforced, Toughened, Polyamide 66

General Information	
UL YellowCard	E41938-234427
Filler / Reinforcement	Glass Fiber,33% 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)
Part Marking Code (ISO 11469)	>PA66-IGF33<
Resin ID (ISO 1043)	PA66-IGF33

Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Water Absorption (24 hr)	0.83	--	%	ASTM D570
Viscosity Number	165	--	cm³/g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8700	5800	MPa	ISO 527-2
Tensile Stress (Break)	142	95.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	5.0	%	ISO 527-2
Flexural Modulus	7400	5200	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	13	13	kJ/m²	
-30°C	14	14	kJ/m²	
23°C	20	22	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	80	75	kJ/m²	
23°C	91	80	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	15	10	kJ/m²	
-30°C	14	10	kJ/m²	
23°C	21	20	kJ/m²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	80	75	kJ/m²	
23°C	74	80	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	262	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	247	--	°C	ISO 75-2/A
Melting Temperature [1]	262	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	23	--	%	ISO 4589-2
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.12	--	g/cm³	
Specific Heat Capacity of Melt	2200	--	J/kg/°C	
Thermal Conductivity of Melt	0.22	--	W/m/K	
NOTE				
1.	10°C/min			

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