Zytel® 70G33L NC010

NYLON RESIN

DuPont Performance Polymers

Message:

33% Glass Reinforced Polyamide 66

General Information	
UL YellowCard	E41938-234410
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight
Additive	Lubricant demoulding
Features	Lubrication
Forms	Particle
Processing Method	Injection molding
Part Marking Code (ISO 11469)	>PA66-GF33
Resin ID (ISO 1043)	PA66-GF33

Physical	Dry	Conditioned	Unit	Test Method
Density	1.39	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	1.1	--	%	ISO 294-4
Flow direction	0.30	--	%	ISO 294-4
Water Absorption				
24 hr	1.2	--	%	ASTM D570
23°C, 24 hr, 2.00 mm	5.7	--	%	ISO 62
Balance, 23°C, 2.00mm, 50% RH	1.8	--	%	ISO 62
Viscosity Number	145	--	cm³/g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10500	8000	MPa	ISO 527-2
Tensile Stress (Break)	200	140	MPa	ISO 527-2
Tensile Strain (Break)	3.5	5.0	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	8000	MPa	ISO 899-1
1000 hr	--	5500	MPa	ISO 899-1
Flexural Modulus	9300	6210	MPa	ISO 178
Flexural Stress	290	200	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	10	10	kJ/m²	ISO 179/1eA

-30°C	10	10	kJ/m²	ISO 179/1eA
23°C	13	17	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	75	kJ/m²	ISO 179/1eU
23°C	85	100	kJ/m²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-40°C	10	10	kJ/m²	ISO 180/1A
-30°C	10	10	kJ/m²	ISO 180/1A
23°C	12	15	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	70	70	kJ/m²	ISO 180/1U
23°C	80	90	kJ/m²	ISO 180/1U
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	261	--	°C	ISO 75-2/B
1.8 MPa, not annealed	252	--	°C	ISO 75-2/A
Glass Transition Temperature [1]	80.0	--	°C	ISO 11357-2
Melting Temperature [2]	262	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	1.8E-5	--	cm/cm/°C	ISO 11359-2
Lateral	8.3E-5	--	cm/cm/°C	ISO 11359-2
Specific Heat Capacity	1330	--	J/kg/°C	
Specific Heat Capacity of Melt	2210	--	J/kg/°C	
Thermal Conductivity of Melt	0.22	--	W/m/K	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Relative Permittivity				IEC 60250
100 Hz	4.20	--		IEC 60250
1 MHz	4.00	--		IEC 60250
Dissipation Factor				IEC 60250
100 Hz	0.010	--		IEC 60250
1 MHz	0.015	--		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate [3] (1.00 mm)	28	--	mm/min	ISO 3795
Flammability Classification (0.710 mm)	HB	--		IEC 60695-11-10, -20

Oxygen Index	24	--	%	ISO 4589-2

NOTE	
1.	10°C/min
2.	10°C/min
3.	SE/B

Recommended distributors for this material

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