Zytel® 70G35EF NC010

NYLON RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced Polyamide 66 Developed for Electrical and Electronics Applications

General Information	
Filler / Reinforcement	Glass Fiber,35% Filler by Weight
Additive	Mold Release
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 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+PA6-GF35<
Resin ID (ISO 1043)	PA66-+PA6-GF35

Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.30	--	%	
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	145	--	cm³/g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	8500	MPa	ISO 527-2
Tensile Stress (Break)	200	140	MPa	ISO 527-2
Tensile Strain (Break)	3.5	4.6	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	8400	MPa	
1000 hr	--	6000	MPa	

Flexural Modulus	10000	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	12	--	kJ/m²	
-30°C	11	10	kJ/m²	
23°C	14	18	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	80	kJ/m²	
23°C	90	100	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	13	--	kJ/m²	
23°C	15	--	kJ/m²	
Multi-Axial Instrumented Impact Energy (23°C)	6.00	--	J	ISO 6603-2
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	110	--	°C	ISO 75-2/C
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**
Volume Resistivity	> 1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength	36	31	kV/mm	IEC 60243-1
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flammability Classification				IEC 60695-11-10, -20
0.700 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	24	--	%	ISO 4589-2
Fill Analysis	**Dry**	**Conditioned**	**Unit**	
Melt Density	1.24	--	g/cm³	
Specific Heat Capacity of Melt	2130	--	J/kg/°C	

Thermal Conductivity of Melt	0.24	--	W/m/K

NOTE	
1.	10°C/min
2.	10°C/min

Recommended distributors for this material

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