

Zytel® FR70M30V0 NC010

NYLON RESIN
DuPont Performance Polymers

Message:
30% Mineral Reinforced, Flame Retardant, Polyamide 66

General Information				
UL YellowCard		E41938-234506		
Filler / Reinforcement		Mineral,30% Filler by Weight		
Additive		Mold Release		
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)		
		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA66-MD30FR(17)<		
Resin ID (ISO 1043)		PA66-MD30FR(17)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.62	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	1.0	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	4.0	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6500	3500	MPa	ISO 527-2
Tensile Stress (Break)	73.0	50.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	2.0	2.0	kJ/m ²	
23°C	2.5	3.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	20	19	kJ/m ²	
23°C	20	30	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	2.0	1.9	kJ/m ²	
23°C	2.0	2.5	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	238	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	145	--	°C	ISO 75-2/A
Vicat Softening Temperature	235	--	°C	ISO 306/B50
Melting Temperature ¹	263	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	6.4E-5	--	cm/cm/°C	
Transverse	8.1E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity				
--	1.0E+15	--	ohms	ASTM D257
--	--	> 1.0E+15	ohms	IEC 60093
Volume Resistivity				
--	1.0E+16	--	ohms·cm	ASTM D257
--	> 1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength	40	33	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	4.10	9.10		
1 MHz	3.70	4.20		
Dissipation Factor				IEC 60250
100 Hz	0.014	0.041		
1 MHz	0.014	0.050		
Comparative Tracking Index	325	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
	V-0			
1.50 mm	5VA	--		
0.750 mm	V-2	--		
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.40	--	g/cm ³	
Specific Heat Capacity of Melt	1700	--	J/kg/°C	

Thermal Conductivity of Melt	0.23	--	W/m/K
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NOTE

1. 10°C/min

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