

Minlon® 73GM40 NC010

MINERAL REINFORCED NYLON RESIN

DuPont Performance Polymers

Message:

40% Mineral/Glass Reinforced Polyamide 6

General Information				
Filler / Reinforcement		Glass\Mineral,40% Filler by Weight		
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
		Platable		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
		Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA6-(MD+GF)40<		
Resin ID (ISO 1043)		PA6-(MD+GF)40		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	5.6	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.6	--	%	
Viscosity Number	150	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8300	4600	MPa	ISO 527-2
Tensile Stress (Break)	140	80.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.5	4.0	kJ/m ²	
23°C	7.0	12	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	50	kJ/m ²	
23°C	60	65	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	4.0	5.5	kJ/m ²	
23°C	5.5	9.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	70.0	--	°C	ISO 11357-2
Vicat Softening Temperature	210	--	°C	ISO 306/B50
Melting Temperature ²	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	4.1E-5	--	cm/cm/°C	
Transverse	7.7E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	33	--	kV/mm	IEC 60243-1
Dissipation Factor				IEC 60250
100 Hz	0.013	--		
1 MHz	3.8E-3	--		
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	55	--	mm/min	ISO 3795
Fill Analysis	Dry	Conditioned	Unit	
Specific Heat Capacity of Melt	2070	--	J/kg/°C	
Thermal Conductivity of Melt	0.23	--	W/m/K	
NOTE				
1.	10°C/min			
2.	10°C/min			

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