

Minlon® 73M40 NC010

MINERAL REINFORCED NYLON RESIN

DuPont Performance Polymers

Message:

40% Mineral Reinforced Polyamide 6

General Information				
UL YellowCard		E41938-234420		
Filler / Reinforcement		Mineral,40% Filler by Weight		
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
		Platable		
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)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA6-MD40<		
Resin ID (ISO 1043)		PA6-MD40		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.80	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	5.4	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.8	--	%	
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6000	2200	MPa	ISO 527-2
Tensile Stress (Break)	87.0	59.0	MPa	ISO 527-2
Tensile Strain (Break)	10	25	%	ISO 527-2

Tensile Creep Modulus				ISO 899-1
1 hr	--	1400	MPa	
1000 hr	--	850	MPa	
Flexural Modulus	5900	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	5.0	kJ/m ²	
23°C	5.5	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	95	kJ/m ²	
23°C	130 kJ/m ²	No Break		
Notched Izod Impact Strength				ISO 180/1A
-30°C	4.0	4.5	kJ/m ²	
23°C	5.0	7.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	196	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	--	°C	ISO 75-2/A
Vicat Softening Temperature	210	--	°C	ISO 306/B50
Melting Temperature ¹	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	6.5E-5	--	cm/cm/°C	
Transverse	7.5E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned		Test Method
Flammability Classification (0.850 mm)	HB	--		IEC 60695-11-10, -20
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.28	--	g/cm ³	
Specific Heat Capacity of Melt	1940	--	J/kg/°C	
Thermal Conductivity of Melt	0.27	--	W/m/K	
NOTE				
1.	10°C/min			

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