

Minlon® EFE6053 BK413

MINERAL REINFORCED NYLON RESIN

DuPont Performance Polymers

Message:

40% Mineral/Glass Reinforced Polyamide 66

General Information				
Filler / Reinforcement		Glass\Mineral,40% Filler by Weight		
Additive		Heat Stabilizer		
		Mold Release		
		UV Stabilizer		
Features		Heat Stabilized		
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 Modulus vs. Temperature (ISO 11403-1)		
		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA66-(GF+MD)40<		
Resin ID (ISO 1043)		PA66-(GF+MD)40		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	5.0	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.5	--	%	
Viscosity Number	140	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	6500	MPa	ISO 527-2
Tensile Stress (Break)	160	97.0	MPa	ISO 527-2
Tensile Strain (Break)	2.2	4.6	%	ISO 527-2

Tensile Creep Modulus				ISO 899-1
1 hr	--	6000	MPa	
1000 hr	--	3700	MPa	
Flexural Modulus	9900	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	6.0	kJ/m ²	
23°C	4.5	6.5	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	40	kJ/m ²	
23°C	45	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	256	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	70.0	--	°C	ISO 11357-2
Vicat Softening Temperature	250	--	°C	ISO 306/B50
Melting Temperature ²	262	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.8E-5	--	cm/cm/°C	
Transverse	8.7E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength	28	--	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	4.90	13.9		
1 MHz	4.80	5.00		
Dissipation Factor				IEC 60250
100 Hz	0.014	0.54		
1 MHz	0.013	0.070		
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.25	--	g/cm ³	
Specific Heat Capacity of Melt	1900	--	J/kg/°C	
Thermal Conductivity of Melt	0.27	--	W/m/K	
NOTE				
1.	10°C/min			
2.	10°C/min			

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