

Grilon® XE 5004 (BM-30/2 UV)

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® XE 5004 (BM-30/2 UV) is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 30% mineral. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® XE 5004 (BM-30/2 UV) are:

- Flame Rated
- RoHS Compliant
- Good UV Resistance
- UV Stabilized

Typical applications include:

- Automotive
- Consumer Goods
- Engineering/Industrial Parts
- Industrial Applications
- Sporting Goods

General Information				
Filler / Reinforcement		Mineral,30% Filler by Weight		
Additive		UV Stabilizer		
Features		Good UV Resistance		
Uses		Automotive Applications		
		Automotive Exterior Parts		
		Consumer Applications		
		Engineering Parts		
		Industrial Applications		
		Sporting Goods		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	ISO 62
Flow	0.40	--	%	
Water Absorption				
Saturation, 23°C	7.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	175	120	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	8500	3700	MPa	ISO 527-2
Tensile Stress (Break)	90.0	45.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	9.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m ²	
23°C	4.0	6.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	30	kJ/m ²	
23°C	30	60	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	155	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	65.0	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 110	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	9.0E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+11	ohms·cm	IEC 60093
Electric Strength	34	30	kV/mm	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA 6, MHLR, 14-190 N, MD 30	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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