

# Grilon® TSGK-30/4 X

Polyamide 66/6 Copolymer

EMS-GRIVORY

## Message:

Grilon® TSGK-30/4 X is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 30% glass bead\glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Grilon® TSGK-30/4 X: Flame Rated.

Typical applications include:

Automotive

Appliances

Electrical/Electronic Applications

Engineering/Industrial Parts

Household Applications

General Information				
Filler / Reinforcement		Glass Bead\Glass Fiber,30% Filler by Weight		
Uses		Appliance Components Automotive Applications Automotive Interior Parts Electrical/Electronic Applications Engineering Parts Household Goods Power/Other Tools Sporting Goods		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	135	80.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5400	2100	MPa	ISO 527-2
Tensile Stress (Break)	110	60.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	10	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	4.0	kJ/m <sup>2</sup>	
23°C	4.0	10	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	35	kJ/m <sup>2</sup>	
23°C	40	70	kJ/m <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	60.0	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	100 to 120	--	°C	
Short Term	200	--	°C	
ISO Type	PA 66+PA 6, MHR, 14-050N, (GF+GB) 30X			ISO 1874
Melting Temperature <sup>1</sup>	260	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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#### Recommended distributors for this material

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