

Grilon® TSG-35

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSG-35 is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 35% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® TSG-35 are:

Flame Rated

RoHS Compliant

Typical applications include:

Appliances

Automotive

Consumer Goods

Electrical/Electronic Applications

Engineering/Industrial Parts

General Information				
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Uses		Appliance Components		
		Automotive Applications		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Industrial Applications		
		Power/Other Tools		
		Sporting Goods		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	220	100	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	6500	MPa	ISO 527-2

Tensile Stress (Break)	225	130	MPa	ISO 527-2
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	25	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	85	90	kJ/m²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	220	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	160	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	100 to 120	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	260	--	°C	
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+13	ohms·cm	IEC 60093
Electric Strength	26	21	kV/mm	IEC 60243-1
Comparative Tracking Index	--	500	V	IEC 60112
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 66+PA 6, MHR, 14-110N, GF-35			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

