

Grilon® TS FR

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TS FR is a Polyamide 66/6 Copolymer (Nylon 66/6) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® TS FR are:

Flame Rated

RoHS Compliant

Flame Retardant

Typical application of Grilon® TS FR: Electrical/Electronic Applications

General Information	
UL YellowCard	E53898-592181
Additive	Flame Retardant
Features	Flame Retardant
Uses	Connectors Electrical/Electronic Applications
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.70	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	1200	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	50.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	15	%	ISO 527-2
Nominal Tensile Strain at Break	20	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	5.0	kJ/m ²	
23°C	10	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	80	kJ/m ²	
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	205	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	100	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	7.0E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+11	ohms·cm	IEC 60093
Electric Strength	29	28	kV/mm	IEC 60243-1
Comparative Tracking Index	600	575	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.400 mm)	V-2	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA 66+PA 6, MFHR, 14-030N	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

