

Grilon® TSS/4

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSS/4 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® TSS/4 are:

Flame Rated

RoHS Compliant

Nucleated

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Consumer Goods

Engineering/Industrial Parts

General Information				
UL YellowCard	E53898-592190			
Additive	Nucleating Agent			
Features	Nucleated			
Uses	Appliance Components Automotive Applications Automotive Interior Parts Connectors Consumer Applications Electrical/Electronic Applications Engineering Parts Industrial Applications Power/Other Tools Sporting Goods			
RoHS Compliance	RoHS Compliant			
Forms	Granules			
Processing Method	Injection Molding			
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.2	--	%	
Water Absorption				ISO 62

Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	145	65.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1100	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	80.0	50.0	MPa	
Break	55.0	--	MPa	
Tensile Strain (Yield)	5.0	15	%	ISO 527-2
Nominal Tensile Strain at Break	15	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	5.0	kJ/m ²	
23°C	5.0	40	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 110	--	°C	
-- ²	220	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	7.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	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	28	26	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	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	PA66+PA6, MHR, 14-030N --	ISO 1874
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NOTE

1.	Long Term
2.	Short Term
3.	10°C/min

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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

