

Grilon® TSS/4 LF 1

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSS/4 LF 1 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 LF 1 are:

- Flame Rated
- RoHS Compliant
- Lubricated
- Wear Resistant

Typical applications include:

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

General Information				
Additive		Molybdenum Disulfide Lubricant (1%)		
Features		Good Wear Resistance		
		Low Friction		
		Lubricated		
Uses		Automotive Applications		
		Automotive Interior Parts		
		Consumer Applications		
		Engineering Parts		
		Industrial Applications		
		Power/Other Tools		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	ISO 62
Flow	0.90	--	%	
Water Absorption				
Saturation, 23°C	5.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method

Ball Indentation Hardness	140	65.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	1400	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	90.0	50.0	MPa	
Break	70.0	--	MPa	
Tensile Strain (Yield)	5.0	15	%	ISO 527-2
Nominal Tensile Strain at Break	12	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	4.0	kJ/m²	
23°C	4.0	8.0	kJ/m²	
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				
1.8 MPa, Unannealed	85.0	--	°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 100	--	°C	
-- ²	200	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	8.0E-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+14	1.0E+12	ohms·cm	IEC 60093
Electric Strength	27	25	kV/mm	IEC 60243-1
Comparative Tracking Index	--	475	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, MHRS, 14-030N, Z1-			ISO 1874
NOTE				
1.	Long Term			

- | | |
|----|------------|
| 2. | Short Term |
| 3. | 10°C/min |

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