

# Grilon® TSS/4 LF 2

Polyamide 66/6 Copolymer

EMS-GRIVORY

## Message:

Grilon® TSS/4 LF 2 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 2 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 (2%)			
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	1.16	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.90	--	%	
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	140	65.0	MPa	ISO 2039-1
<b>Mechanical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
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
<b>Impact</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	4.0	kJ/m <sup>2</sup>	
23°C	4.0	8.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
<b>Thermal</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
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
-- <sup>1</sup>	80.0 to 100	--	°C	
-- <sup>2</sup>	200	--	°C	
Melting Temperature <sup>3</sup>	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	8.0E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
<b>Electrical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
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
<b>Flammability</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
<b>Additional Information</b>	<b>Dry</b>	<b>Conditioned</b>		<b>Test Method</b>
ISO Type	PA66+PA6, MHRS, 14-030N, Z2-			ISO 1874
<b>NOTE</b>				
1.	Long Term			

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