

# Grilon® TSG-30/4 LF 15

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSG-30/4 LF 15 is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 30% 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-30/4 LF 15 are:

Flame Rated

RoHS Compliant

Lubricated

Wear Resistant

Typical applications include:

Automotive

Consumer Goods

Electrical/Electronic Applications

Engineering/Industrial Parts

Industrial Applications

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		PTFE + Silicone Lubricant (15%)		
Features		Good Wear Resistance		
		Low Friction		
Uses		Automotive Applications		
		Automotive Interior Parts		
		Consumer Applications		
		Electrical/Electronic 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	1.46	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	

Equilibrium, 23°C, 50%				
RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6500	3000	MPa	ISO 527-2
Tensile Stress (Break)	100	70.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	8.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m²	
23°C	4.0	8.0	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	30	kJ/m²	
23°C	40	50	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	70.0	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- <sup>1</sup>	90.0 to 110	--	°C	
-- <sup>2</sup>	180	--	°C	
Melting Temperature <sup>3</sup>	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	3.0E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Flammability	Dry	Conditioned	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, MHRS, 14-060, GF30+Z15			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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