

Grilon® TS V0

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TS V0 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 V0 are:

- Flame Rated
- RoHS Compliant
- Flame Retardant

Typical applications include:

- Electrical/Electronic Applications
- Appliances
- Automotive
- Hose/Tubing
- Wire & Cable

General Information				
UL YellowCard		E53898-592182		
Additive		Flame Retardant		
Features		Flame Retardant		
		Self Extinguishing		
Uses		Appliance Components		
		Automotive Applications		
		Connectors		
		Electrical/Electronic Applications		
		Tubing		
		Wire & Cable 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)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	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	3600	1600	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	85.0	50.0	MPa	
Break	75.0	50.0	MPa	
Tensile Strain (Yield)	4.0	15	%	ISO 527-2
Nominal Tensile Strain at Break	10	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m ²	
23°C	4.0	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	--	kJ/m ²	
23°C	75	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	100 to 120	--	°C	
-- ²	200	--	°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	28	26	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.00	8.00		
1 MHz	3.00	4.00		
Dissipation Factor				IEC 60250
100 Hz	5.0E-3	0.15		
1 MHz	0.015	0.070		

Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.400 mm	V-0	--		
1.50 mm	V-0	--		
Oxygen Index	35	--	%	ISO 4589-2
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA 66+PA 6, MFHR, 14-040 N --			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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