

Grilon® AS V0

Polyamide 66

EMS-GRIVORY

Message:

Grilon® AS V0 is a Polyamide 66 (Nylon 66) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® AS V0 are:

Flame Rated

RoHS Compliant

Flame Retardant

Typical applications include:

Electrical/Electronic Applications

Appliances

Automotive

Hose/Tubing

Wire & Cable

General Information				
UL YellowCard		E132701-237901	E53898-243884	
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)		
		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	1.1	--	%	
Flow	0.90	--	%	
Water Absorption				ISO 62

Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3900	2000	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	90.0	55.0	MPa	
Break	80.0	--	MPa	
Tensile Strain (Yield)	4.0	12	%	ISO 527-2
Nominal Tensile Strain at Break	9.0	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	100	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	225	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 110	--	°C	
-- ²	200	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	6.0E-5	--	cm/cm/°C	
Transverse	9.0E-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	31	28	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.00	7.00		
1 MHz	4.00	4.00		
Dissipation Factor				IEC 60250
100 Hz	3.0E-3	0.10		
1 MHz	0.020	0.065		
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.800 mm	V-0	--		

1.50 mm	V-0	--	
Oxygen Index	32	--	% ISO 4589-2
Additional Information	Dry	Conditioned	Test Method
ISO Type	PA 66, MFHR, 14-040	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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