Grilon® TSZ 1

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSZ 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® TSZ 1 are:
Flame Rated
RoHS Compliant
Impact Modified
Typical applications include:
Automotive
Electrical/Electronic Applications
Consumer Goods
Engineering/Industrial Parts
Industrial Applications

General Information	
Additive	Impact Modifier
Features	Impact Modified
Uses	Automotive Applications Connectors Consumer Applications Electrical/Electronic Applications Engineering Parts Industrial Applications Power/Other Tools Sporting Goods
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.12	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.2	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.5	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	125	45.0	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	2400	750	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	65.0	35.0	MPa	
Break	40.0	--	MPa	
Tensile Strain (Yield)	4.0	20	%	ISO 527-2
Nominal Tensile Strain at Break	25	> 50	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	8.0	kJ/m^2	
23°C	11	45	kJ/m^2	
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				
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- [1]	100 to 120	--	°C	
-- [2]	180	--	°C	
Melting Temperature [3]	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.2E-4	--	cm/cm/°C	
Transverse	1.5E-4	--	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	31	27	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	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-HI, MHR, 14-020N	--		ISO 1874
NOTE				

1.	Long Term
2.	Short Term
3.	10°C/min

Recommended distributors for this material

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