Grilon® TSGZ-15/4

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSGZ-15/4 is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 15% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Important attributes of Grilon® TSGZ-15/4 are:
Flame Rated
RoHS Compliant
Impact Modified
Typical applications include:
Automotive
Electrical/Electronic Applications
Appliances
Consumer Goods
Engineering/Industrial Parts

General Information	
Filler / Reinforcement	Glass Fiber,15% Filler by Weight
Additive	Impact Modifier
Features	Impact Modified
Uses	Appliance Components Automotive Applications Automotive Interior Parts Connectors Consumer Applications Electrical/Electronic Applications Engineering Parts Household Goods Industrial Applications Power/Other Tools Sporting Goods
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.20	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	

Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	5800	3100	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	70.0	MPa	
Break	110	65.0	MPa	
Tensile Strain				ISO 527-2
Yield	--	5.0	%	
Break	4.0	--	%	
Nominal Tensile Strain at Break	--	10	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	5.0	kJ/m²	
23°C	11	16	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	70	kJ/m²	
23°C	70	85	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	225	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	65.0	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- [1]	90.0 to 120	--	°C	
-- [2]	160	--	°C	
Melting Temperature [3]	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	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	30	27	kV/mm	IEC 60243-1
Comparative Tracking Index	600	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,14-060N,GF15			ISO 1874

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

Recommended distributors for this material

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