HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Grilon BG-35 S

PA6-GF35 EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:
PA 6, MHR, 14-110N, GF 35

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	**11000 / 7000**	MPa	ISO 527-1/-2
Stress at break	**200 / 135**	MPa	ISO 527-1/-2
Strain at break	**4 / 8**	%	ISO 527-1/-2
Charpy impact strength (+23°C)	**85 / 90**	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	**75 / 75**	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	**12 / 20**	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	**9 / 10**	kJ/m²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	**225 / 115**	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	**222 / -**	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	**205 / -**	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	**165 / -**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	**25 / -**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	**80 / -**	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	**HB / -**	class	IEC 60695-11-10
Thickness tested	**0.8 / -**	mm	IEC 60695-11-10
Max. usage temperature (long term)	**90 - 110**	°C	ISO 2578
Max. usage temperature (short term)	**160**	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	**1E12 / 1E11**	Ohm*m	IEC 60093
Surface resistivity	**- / 1E12**	Ohm	IEC 60093
Electric strength	**35 / 33**	kV/mm	IEC 60243-1
Comparative tracking index	**- / 500**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	**7 / -**	%	Sim. to ISO 62
Humidity absorption	**2 / -**	%	Sim. to ISO 62
Density	**1410 / -**	kg/m³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	**0.1 / -**	%	ISO 294-4, 2577
Molding shrinkage (normal)	**0.8 / -**	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Delivery form

Granules

Automotive

Air intake sytems, Interior

Electricals & Electronics

Electrical appliances, Electrical equipment

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Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa