

Grilon TS V0 X

PA666 FR

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 6+PA66, MFHR, 14-040 N

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	3800 / 1300	MPa	ISO 527-1/-2
Yield stress	80 / 40	MPa	ISO 527-1/-2
Yield strain	4 / 25	%	ISO 527-1/-2
Nominal strain at break	9 / >50	%	ISO 527-1/-2
Stress at break	75 / 50	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	90 / -	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	75 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3.5 / 3	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	190 / 75	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	260 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	75 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	200 / -	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / -	class	IEC 60695-11-10
Thickness tested	1.5 / -	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-0 / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	100 - 120	°C	ISO 2578
Max. usage temperature (short term)	200	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E12 / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Comparative tracking index	- / 575	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	7 / -	%	Sim. to ISO 62
Humidity absorption	2.5 / -	%	Sim. to ISO 62
Density	1190 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.7 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.7 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Delivery form

Granules

Product Attributes

Improved flowability and demoulding

Automotive

Automotive electr. and electronics, lighting

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Special Characteristics

Flame retardant

Regional Availability

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

Electricals & Electronics

Electrical appliances, Electrical equipment, Cables & Tubes,
Connectors, Energy distribution, Lighting

Burning Behaviour

UL V0, VDE
