

Product Texts

Product-nomenclature: ISO 16396-PA66 PA6,GF50,M1HR,C14-160N

Markets**Industry & Consumer goods**

Housewares, Sports & Leisure

Packaging

Medical packaging

Approvals**Food Contact**

EU Requirements, FDA

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.3 / *	%	ISO 294-4, 2577
^[C] Density of melt	1400	kg/m ³	-
^[C] Thermal conductivity of melt	0.29	W/(m K)	-
^[C] Spec. heat capacity of melt	1900	J/(kg K)	-
^[C] Eff. thermal diffusivity	1.09E-7	m ² /s	-
^[C] Ejection temperature	200	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	16500 / 10000	MPa	ISO 527
^[C] Stress at break	240 / 150	MPa	ISO 527
^[C] Strain at break	3 / 5	%	ISO 527
^[C] Charpy impact strength, +23°C	90 / 100	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	80 / 90	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	15 / 20	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	11 / 12	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	220 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	165 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	15 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E11 / 1E9	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
^[C] Electric strength	31 / 31	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	6 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62

Grilon TSG-50 FA

PA666-GF50

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Density

1560 / -

kg/m³

ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules

Certifications

Food contact, Food approval FDA 21 CFR

Regional Availability

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