

Product Texts

Product-nomenclature: ISO 16396-PA66,M1HR,S14-100

Product Attributes

Improved heat resistance

Markets**Automotive**

Hydraulic systems, Automotive electr. and electronics, lighting, Cooling and climate control, Powertrain and Chassis

Electricals & Electronics

Electrical appliances

Industry & Consumer goods

Heating systems, Mechanical Engineering, Power transmission, Sports & Leisure, Tools & Accessories

Processing/Physical Characteristics

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10500 / 7000	MPa	ISO 527
^[C] Stress at break	195 / 130	MPa	ISO 527
^[C] Strain at break	3 / 6	%	ISO 527
^[C] Charpy impact strength, +23°C	65 / 85	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	55 / 50	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10 / 15	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	9 / 9	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	250 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	190 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	80 / *	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	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	39 / 36	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 550	-	IEC 60112

[C]: CAMPUS

Other properties

	dry / cond	Unit	Test Standard
^[C] Water absorption	5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62
^[C] Density	1380 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Black

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive, Electrical and Electronical, Sports Equipment

Regional Availability

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