

Product Texts

Product-nomenclature: ISO 16396-(PA12 PA6XY)-I,,EHL,C12-007

Product Attributes

Highly flexible, Improved impact resistance, Improved heat resistance

Markets

Automotive
 Fuel systems
Industry & Consumer goods
 Hydraulics & Pneumatics

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.8 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.3 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	650 / 450	MPa	ISO 527
^[C] Stress at 50% strain	20 / 20	MPa	ISO 527
^[C] Strain at break	>50 / >50	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	70 / 80	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	207 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	40 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	90 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	160 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	190 / *	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	1E10 / 1E11	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E11	Ohm	IEC 62631-3-2
^[C] Electric strength	35 / 35	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	2.8 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.9 / *	%	Sim. to ISO 62
^[C] Density	1000 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Profile Extrusion, Other Extrusion

Delivery form

Granules, Black

Special Characteristics

High impact or impact modified, Light stabilized or stable to light, Heat stabilized or stable to heat

Regional Availability

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