

**Product Texts**

Product Nomenclature:  
ISO 16396-PA12 X,GB30,M1H,C18-030

**Product Attributes**

Hydrolysis resistant, Improved friction & wear properties, Improved heat resistance

**Markets**

**Industry & Consumer goods**  
Sanitary, water and gas supply

**Approvals**

**Food Contact**  
EU Requirements, FDA  
**Potable Water Contact**  
NSF 61, KTW, WRAS, ACS, DVGW W270

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	<b>0.8 / *</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	<b>0.9 / *</b>	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>2700 / 2600</b>	MPa	ISO 527
<sup>[C]</sup> Stress at break	<b>50 / 50</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>15 / 15</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>80 / 100</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	<b>80 / 100</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>4 / 4</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>4 / 4</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Shore D hardness	<b>80 / *</b>	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>178 / *</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>75 / *</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 8.00 MPa	<b>45 / *</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	<b>80 / *</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	<b>80 / *</b>	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Volume resistivity	<b>1E9 / 1E9</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	<b>* / 1E10</b>	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	<b>40 / 40</b>	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	<b>- / 600</b>	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	<b>1.7 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.8 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1220 / -</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Granules, Natural Color

**Special Characteristics**

Light stabilized or stable to light, Heat stabilized or stable to heat

**Features**

Tribologic Grade

**Chemical Resistance**

Hydrolytically Stable

**Certifications**

Food contact, Food approval FDA 21 CFR, Drinking water contact, Drinking water contact KTW, Drinking water contact DVGW W270, Drinking water contact NSF 61

**Regional Availability**

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