

**Product Texts**

Product-nomenclature: ISO 16396-PA612-IP,,E,C22-005

**Product Attributes**

Highly flexible, High viscosity, Hydrolysis resistant, Improved impact resistance, Improved heat resistance, Plasticised

**Markets**

**Automotive**

Air intake systems, Compressed air systems, Hydraulic systems, Cooling and climate control, Fuel systems, Powertrain and Chassis

**Electricals & Electronics**

Cables & Tubes

**Industry & Consumer goods**

Hydraulics & Pneumatics, Mechanical Engineering

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>550 / 380</b>	MPa	ISO 527
<sup>[C]</sup> Stress at 50% strain	<b>30 / 25</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>&gt;50 / &gt;50</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>15 / 13</b>	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>210 / *</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>50 / *</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	<b>100 / *</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	<b>250 / *</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	<b>100 / *</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at thickness h	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / *</b>	mm	-

[C]: CAMPUS

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Volume resistivity	<b>1E7 / -</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>- / 37</b>	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	<b>- / 600</b>	-	IEC 60112

[C]: CAMPUS

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Water absorption	<b>2.1 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.9 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1040 / -</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Profile Extrusion, Other Extrusion

**Special Characteristics**

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

## Grilamid 2D 25 W 20 HL X black 9992

PA612

EMS-GRIVORY | a unit of EMS-CHEMIE AG

### Delivery form

Granules, Black

### Additives

Plasticizer

### Regional Availability

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