

**Product Texts**

**DESCRIPTION**

Elastollan 1147 D FHF is a halogen free, flame retarded polyether based TPU

**SPECIAL PROPERTIES**

excellent resistance to hydrolysis and good flexibility at low temperature,  
resistance to microbiological attack, good wear performance,  
high tensile strength, good damping behavior

**TYPICAL APPLICATIONS**

cable sheathing, hoses, profiles

**OTHER HINTS**

predrying: 2-3h at 100-110°C,  
max. content of humidity before processing: 0,02%  
annealing: 20 h at 100°C in order to get optimum properties

**CHEMICAL RESISTANCE**

For detailed information on the chemical resistance of our materials refer to this [list of chemical resistance](#)

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>160</b>	MPa	ISO 527
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Stress at 100% elongation	<b>9</b>	MPa	ISO 527
<sup>[C]</sup> Stress at 300% elongation	<b>10</b>	MPa	ISO 527
<sup>[C]</sup> Stress at break TPE	<b>13</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break TPE	<b>&gt;300</b>	%	ISO 527
<sup>[C]</sup> Compression set at 23 °C, 24h	<b>29</b>	%	ISO 815
<sup>[C]</sup> Compression set at 70 °C, 24h	<b>50</b>	%	ISO 815
<sup>[C]</sup> Tear strength	<b>60</b>	kN/m	ISO 34-1
<sup>[C]</sup> Abrasion resistance	<b>54</b>	mm <sup>3</sup>	ISO 4649
<sup>[C]</sup> Shore A hardness	<b>94</b>	-	ISO 7619-1
<sup>[C]</sup> Shore D hardness	<b>48</b>	-	ISO 7619-1

[C]: CAMPUS

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	<b>V-0</b>	class	IEC 60695-11-10
Yellow Card available	<b>yes</b>	-	-
<sup>[C]</sup> Burning Behav. at thickness h	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>3.0</b>	mm	-
Yellow Card available	<b>yes</b>	-	-

[C]: CAMPUS

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Density	<b>1270</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding, Profile Extrusion

**Regional Availability**

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