Elastollan® 1185 A FHF

(TPU-ARET) BASF Polyurethanes GmbH

Product Texts

DESCRIPTION
Elastollan 1185 A 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, plugs, profiles,

OTHER HINTS
predrying: 2-3h at 100-110°C (air circulating oven) or 80-90°C (dehumidified air dryer),
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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Stress at 50% strain	**6**	MPa	ISO 527
[C] Strain at break	**>50**	%	ISO 527
[C] Charpy notched impact strength, -30°C	**120**	kJ/m²	ISO 179/1eA
[C] Stress at 100% elongation	**8**	MPa	ISO 527
[C] Stress at 300% elongation	**13**	MPa	ISO 527
[C] Stress at break TPE	**35**	MPa	ISO 527
[C] Strain at break TPE	**>300**	%	ISO 527
[C] Compression set at 23 °C, 24h	**25**	%	ISO 815
[C] Compression set at 70 °C, 24h	**45**	%	ISO 815
[C] Tear strength	**60**	kN/m	ISO 34-1
[C] Abrasion resistance	**35**	mm³	ISO 4649
[C] Shore A hardness	**89**	-	ISO 7619-1
[C] Shore D hardness	**37**	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Glass transition temperature, 10°C/min	**-44**	°C	ISO 11357-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Yellow Card available	**yes**	-	-
[C] Burning Behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Yellow Card available	**yes**	-	-
[C] Oxygen index	**24**	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 1MHz	**6**	-	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**900**	E-4	IEC 62631-2-1
[C] Comparative tracking index	**600**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1230**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding, Profile Extrusion

Delivery form
Pellets

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

Other text information

Injection molding
Barrel temperature : 195 - 210 °C
Melt temperature : 210 °C
Mold temperature: 25 - 40 °C

Profile extrusion
Barrel temperature : 170 - 200 °C