

Product Texts

DESCRIPTION

Elastollan 1154 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](#)

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	160	MPa	ISO 527
^[C] Charpy notched impact strength, +23°C	50	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	3	kJ/m ²	ISO 179/1eA
^[C] Stress at 100% elongation	19	MPa	ISO 527
^[C] Stress at 300% elongation	33	MPa	ISO 527
^[C] Stress at break TPE	30	MPa	ISO 527
^[C] Strain at break TPE	>300	%	ISO 527
^[C] Compression set at 23 °C, 24h	30	%	ISO 815
^[C] Compression set at 70 °C, 24h	45	%	ISO 815
^[C] Tear strength	110	kN/m	ISO 34-1
^[C] Abrasion resistance	40	mm ³	ISO 4649
^[C] Shore D hardness	55	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[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]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1270	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Profile Extrusion

Regional Availability

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