

PRODUCT INFORMATION

HERAFLEX E 4718 1000 NAT

DESCRIPTION

TPC-ET Thermoplastic Elastomer. Low Modulus, Nominal Shore D/15s 43. Natural colour

ISO 1043: TPC-ET

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

MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.05%. Typical conditions with a desiccant drier: temperature 110 ° C, dew point -30 ° C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Injection Molding Processing Parameters

Melt Temperature
210 - 220°C

Mold Temperature
30 - 50°C

Injection Speed
medium

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet
ROHS compliant 2011/65/UE and following amendments

TECHNICAL DATA SHEET

HERAFLEX E 4718 1000 NAT

PROPERTY	STANDARD	UNIT	VALUE
<i>PHYSICAL PROPERTIES</i>			
Density	ISO 1183	kg/m ³	1160
Melt Flow Rate	ISO 1133	g/10min	34
Water Absorption, immersion at 23°C	ISO 62	%	0.45
<i>MECHANICAL PROPERTIES</i>			
Tensile Modulus	ISO 527-2/1A	MPa	60
Nominal Strain at Break	ISO 527-2/1A	%	>800
Stress at 10% Elongation	ISO 527-2/1A	MPa	6
Stress at 100% Elongation	ISO 527-2/1A	MPa	11
Stress at 300% Elongation	ISO 527-2/1A	MPa	12
Flexural Modulus	ISO 178	MPa	95
Flexural Strength	ISO 178	MPa	6
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	N
Tear strength	ISO 34-1	kN/m	142
Abrasion resistance	ISO 4649	mm ³	19
Shore D hardness	ISO 7619-1	-	43
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<i>THERMAL PROPERTIES</i>			
Melting Temperature	ISO 11357-1/-3	°C	186
Heat Deflection Temperature	ISO 75/2Bf	°C	70
Vicat Softening Temperature	ISO 306	°C	150
<i>ELECTRICAL PROPERTIES</i>			
Volume Resistivity	IEC 60093	Ohm*m	1E13
Surface Resistivity	IEC 60093	Ohm	1E12

1: Temperature [°C] / Load [kg]