

PRODUCT INFORMATION

HERAFLEX E 3918 1000 NAT

DESCRIPTION

TPC-ET Thermoplastic Elastomer. Lowest Modulus, Nominal Shore D/15s 35. 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
190 - 200°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 3918 1000 NAT

PROPERTY		STANDARD	UNIT	VALUE
<i>PHYSICAL PROPERTIES</i>				
Density		ISO 1183	kg/m ³	1120
Melt Flow Rate	230/2.16 ¹⁾	ISO 1133	g/10min	33
Water Absorption, immersion at 23°C	1mm	ISO 62	%	0.73
<i>MECHANICAL PROPERTIES</i>				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	35
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	>800
Stress at 10% Elongation		ISO 527-2/1A	MPa	4
Stress at 100% Elongation		ISO 527-2/1A	MPa	8
Stress at 300% Elongation		ISO 527-2/1A	MPa	9
Flexural Modulus	2mm/min	ISO 178	MPa	55
Flexural Strength	2mm/min	ISO 178	MPa	5
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	N
Tear strength		ISO 34-1	kN/m	113
Abrasion resistance		ISO 4649	mm ³	26
Shore D hardness	15s	ISO 7619-1	-	35
Shore D hardness	inst.	ISO 7619-1	-	39
<i>THERMAL PROPERTIES</i>				
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	177
Heat Deflection Temperature	0.45 MPa	ISO 75/2Bf	°C	65
Vicat Softening Temperature	50°C/h 50N	ISO 306	°C	130
<i>ELECTRICAL PROPERTIES</i>				
Volume Resistivity	500V	IEC 60093	Ohm*m	1E13
Surface Resistivity	500V	IEC 60093	Ohm	1E12

1: Temperature [°C] / Load [kg]