

## PRODUCT INFORMATION

# HERAFLEX E 6521 1000 NAT

### DESCRIPTION

TPC-ET Thermoplastic Elastomer. Medium-high Modulus, Nominal Shore D/15s 57. 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  
230 - 240°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 6521 1000 NAT

PROPERTY		STANDARD	UNIT	VALUE
<i>PHYSICAL PROPERTIES</i>				
Density		ISO 1183	kg/m <sup>3</sup>	1230
Melt Flow Rate	230/2.16 <sup>[1]</sup>	ISO 1133	g/10min	23
Water Absorption, immersion at 23°C	1mm	ISO 62	%	0.2
<i>MECHANICAL PROPERTIES</i>				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	390
Stress at Yield	50mm/min	ISO 527-2/1A	MPa	25
Yield Strain		ISO 527-2/1A	%	25
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	600
Stress at 10% Elongation		ISO 527-2/1A	MPa	19
Stress at 100% Elongation		ISO 527-2/1A	MPa	22
Stress at 300% Elongation		ISO 527-2/1A	MPa	23
Stress at Break	5mm/min	ISO 527-2/1A	MPa	38
Flexural Modulus	2mm/min	ISO 178	MPa	370
Flexural Strength	2mm/min	ISO 178	MPa	20
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	70
Tear strength		ISO 34-1	kN/m	241
Abrasion resistance		ISO 4649	mm <sup>3</sup>	20
Shore D hardness	15s	ISO 7619-1	-	57
Shore D hardness	inst.	ISO 7619-1	-	65
<i>THERMAL PROPERTIES</i>				
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	212
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	60
Heat Deflection Temperature	0.45 MPa	ISO 75/2Bf	°C	110
Vicat Softening Temperature	50°C/h 50N	ISO 306	°C	195
<i>ELECTRICAL PROPERTIES</i>				
Volume Resistivity	500V	IEC 60093	Ohm*m	1E13
Surface Resistivity	500V	IEC 60093	Ohm	1E12

1: Temperature [°C] / Load [kg]