Product Information

HERAFLEX E 4718 1000 NAT

Material code *Colour code*

DESCRIPTION

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

ISO 1043 : TPC-ET

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.

Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:
210 ÷ 220 °C	30 ÷ 50 °C	Medium

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet

RoHS compliant 2002/95/CE and following amendments

Technical data sheet

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PROPERTY		STANDARD	UNIT	VALUE
Physical Properties				
Density		ISO 1183	Kg/m^3	1160
Melt Flow Rate	230°C/ 2.16kg	ISO 1133	g/10'	34
Shore D Hardness	3s	ISO 868	-	47
Shore D Hardness	15s	ISO 868	-	43
Abrasion resistance		ASTM D 1004	mm^3	19
Tear Strength		DIN 53516	N/mm	142
Mechanical Properties				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	60
Stress at 10% Strain	50mm/min	ISO 527-2/1A	MPa	6
Stress at 100% Strain	50mm/min	ISO 527-2/1A	MPa	11
Stress at 300% Strain	50mm/min	ISO 527-2/1A	MPa	12
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	>800
Flexural Modulus	2mm/min	ISO 178	MPa	95
Flexural Strength	2mm/min	ISO 178	MPa	6
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m^2	NB
Thermal Properties				
Melting Temperature	10°C/min	ISO 11357-1-3	°C	186
Heat Deflection Temperature	0.45 MPa	ISO 75/2 B f	°C	70
Vicat Softening Temperature	50°C/h	ISO 306/B50 50N	°C	150
Electrical Properties				
Volume resistivity	500V	IEC 60093	ohm · m	1E+13
Surface resistivity	500V	IEC 60093	ohm	1E+12

*Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]