

PRODUCT INFORMATION

HERAFLEX E MTE5505UK 100 NT

PROVISIONAL

DESCRIPTION

TPC-ET Thermoplastic Elastomer. Medium-high Modulus, Nominal Shore D/60. Natural colour. Suitable for Mandrels & Tubes Extrusion.

ISO 1043: TPC-ET

THE CHARACTERISTICS SHOWN HERE ARE PROVISIONAL AND REFLECT THE AVERAGE VALUES OF PROPERTIES MEASURED OVER A LIMITED NUMBER OF PRODUCTION CAMPAIGNS

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.

Suggested Temperature Profile

Rear	Center Rear	Center Front	Front	Head and Die	Melt Temp
195 - 215°C	210 - 215°C	215 - 225°C	220 - 235°C	220 - 235°C	220 - 235°C
385 - 420°F	410 - 420°F	420 - 435°F	430 - 455°F	430 - 455°F	430 - 455°F

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 MTE5505UK 100 NT

PROPERTY	STANDARD	UNIT	VALUE
<i>PHYSICAL PROPERTIES</i>			
Density	ISO 1183	kg/m ³	1170
Melt Flow Rate	ISO 1133	g/10min	7
<i>MECHANICAL PROPERTIES</i>			
Tensile Modulus	ISO 527-2/1A	MPa	180
Stress at 10% Elongation	ISO 527-2/1A	MPa	9
Stress at 50% strain	ISO 527-2/1A	MPa	12
Stress at 100% Elongation	ISO 527-2/1A	MPa	15
Stress at 300% Elongation	ISO 527-2/1A	MPa	18
Strain at Break	ISO 527-2/1A	%	>50
Flexural Modulus	ISO 178	MPa	135
Flexural Strength	ISO 178	MPa	10
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	N
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	N
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	N
Shore D hardness	ISO 7619-1	-	48
Shore D hardness	ISO 7619-1	-	55
<i>THERMAL PROPERTIES</i>			
Melting Temperature	ISO 11357-1/-3	°C	200

1: Temperature [°C] / Load [kg]