

PRODUCT INFORMATION

HERAFLEX E MTE6305UK 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
200 - 220°C	215 - 220°C	220 - 230°C	225 - 240°C	225 - 240°C	225 - 240°C
395 - 430°F	420 - 430°F	430 - 460°F	435 - 465°F	435 - 465°F	435 - 465°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 MTE6305UK 100 NT

PROPERTY	STANDARD	UNIT	VALUE	
PHYSICAL PROPERTIES				
Density	ISO 1183	kg/m ³	1220	
Melt Flow Rate	ISO 1133	g/10min	5	
MECHANICAL PROPERTIES				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	450
Stress at Yield	50mm/min	ISO 527-2/1A	MPa	26
Yield Strain		ISO 527-2/1A	%	25
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	>300
Stress at 10% Elongation		ISO 527-2/1A	MPa	20
Stress at 100% Elongation		ISO 527-2/1A	MPa	23
Stress at 300% Elongation		ISO 527-2/1A	MPa	25
Stress at Break	5mm/min	ISO 527-2/1A	MPa	35
Flexural Modulus	2mm/min	ISO 178	MPa	400
Flexural Strength	2mm/min	ISO 178	MPa	20
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m ²	N
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	N
Charpy Notched Impact Strength	-30°C	ISO 179/1eA	kJ/m ²	10
Shore D hardness	15s	ISO 7619-1	-	57
Shore D hardness	inst.	ISO 7619-1	-	63
THERMAL PROPERTIES				
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	212

1: Temperature [°C] / Load [kg]