

Heraflex® E 6521 1000 NT

 Radici Group High Performance Polymers - *Thermoplastic Copolyester Elastomer*
General Information
Product Description

TPC-ET Thermoplastic Elastomer. Medium-high Modulus, Nominal Shore D/15s 57. Natural colour

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Stiffness		
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• TPC-ET		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	23	g/10 min	ISO 1133
Water Absorption (Saturation, 73°F, 0.0394 in)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	56600	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	3630	psi	ISO 527-2/1A/50
Tensile Stress (Break)	5510	psi	ISO 527-2/1A/50
Tensile Stress			ISO 527-2/1A/50
10% Strain	2760	psi	
100% Strain	3190	psi	
300% Strain	3340	psi	
Tensile Strain (Yield)	25	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	600	%	ISO 527-2/1A/50
Flexural Modulus ²	53700	psi	ISO 178
Flexural Stress ²	2900	psi	ISO 178
Abrasion Resistance	20.0	mm ³	ISO 4649
Tear Strength	1400	lbf/in	ISO 34-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	33	ft·lb/in ²	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			
Shore D, Instant	65		ISO 868
Shore D, Instant	65		ISO 48-4
Shore D, 15 sec	57		ISO 868
Shore D, 15 sec	57		ISO 48-4
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	230	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ISO 75-2/Af
Vicat Softening Temperature	383	°F	ISO 306/B50
Melting Temperature ³	414	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	ohms	IEC 62631-3-2



Volume Resistivity (500 V)	1.0E+13 ohms·m	IEC 62631-3-1
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Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	230	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -22	°F
Suggested Max Moisture	0.050	%
Processing (Melt) Temp	446 to 464	°F
Mold Temperature	86 to 122	°F
Injection Rate	Moderate	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 10°C/min

