

**Heraflex® E 7722 1000 NT**

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

TPC-ET Thermoplastic Elastomer. High Modulus, Nominal Shore D/15s 69. Natural colour

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• High 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 <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ISO 1133
Water Absorption (Saturation, 73°F, 0.0394 in)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	196000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	6960	psi	ISO 527-2/1A/50
Tensile Stress (Break)	4210	psi	ISO 527-2/1A/50
Tensile Stress			ISO 527-2/1A/50
10% Strain	6530	psi	
100% Strain	4640	psi	
Tensile Strain (Yield)	15	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	350	%	ISO 527-2/1A/50
Flexural Modulus <sup>2</sup>	183000	psi	ISO 178
Flexural Stress <sup>2</sup>	7250	psi	ISO 178
Abrasion Resistance	39.0	mm <sup>3</sup>	ISO 4649
Tear Strength	1400	lbf/in	ISO 34-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in <sup>2</sup>	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			
Shore D, Instant	77		ISO 868
Shore D, Instant	77		ISO 48-4
Shore D, 15 sec	69		ISO 868
Shore D, 15 sec	69		ISO 48-4
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	239	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ISO 75-2/Af
Vicat Softening Temperature	410	°F	ISO 306/B50
Melting Temperature <sup>3</sup>	426	°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



## 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	464 to 482	°F
Mold Temperature	86 to 122	°F
Injection Rate	Moderate	

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min

<sup>3</sup> 10°C/min

