



Product Information

POLY-TREL Compound HT55-OR-HS Heat Stabilized TPE thermoplastic polyester elastomer

Property	Test Method	Units	Value
Mechanical			
Tensile Stress	ISO 527	Mpa (kpsi)	
@5% Strain			6.9 (1)
@10% Strain			11 (1.6)
@50% Strain			
Yield Stress	ISO 527	Mpa (kpsi)	15 (2.2)
Stress at Break	ISO 527	Mpa (kpsi)	42 (6.1)
Strain at Break	ISO 527	%	520
Normal Strain at Break	ISO 527	%	>50
Yield Strain	ISO 527	%	50
Tensile Modulus	ISO 527	Mpa (kpsi)	184 (27)
Flexural Modulus	ISO 178	Mpa (kpsi)	
-40C (-40F)			760 (110)
23C (73F)			195 (28)
100C (212F)			110 (16)
Hardness , Shore D	ISO 868		
15s			52
Maximum			55
Tensile Impact Strength	ISO 8256	kJ/m2	300
Notched Charpy Impact Strength	Iso 179/1eA	kJ/m2	84
Shelf Life	ISO R1183		10 years
Temperature Range			-65F to +275F
Color			Orange

Test specimen for ISO 527 is 1BA (2mm) at 50mm/min; all other ISO & ASTM mechanical properties measured at 4mm; electrical properties measured at 2mm.
All mechanical & electrical properties measured on injection molded specimens.
Test temperatures are 23C unless otherwise stated.

The information provided in this data sheet corresponds to our knowledge on the subject at the date of this publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such materials used in combination with any other material, additives or pigments or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specifications limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to do to determine the suitability of a specific compound for your particular purpose. Since Engineered Seals, LLC cannot anticipate all variation in actual end-use conditions ESC makes no warranties and assumes no liability in connection with any use of this information. Caution: Do not use this product in medical application involving permanent implantation in the human body.