ENGINEERED SEALS & COMPONENTS, LLC.

Product Information

POLY-TREL Compound HT47

TPE thermoplastic polyester elastomer

Property	Test Method	Units	Value
Mechanical			
Tensile Stress	ISO 527	Mpa (kpsi)	
@5% Strain			
@10% Strain			6.8 (1.0)
@50% Strain			11 (1.6)
Yield Stress	ISO 527	Mpa (kpsi)	
Stress at Break	ISO 527	Mpa (kpsi)	17 (2.5)
Strain at Break	ISO 527	%	200
Normal Strain at Break	ISO 527	%	>50
Yield Strain	ISO 527	%	
Tensile Modulus	ISO 527	Mpa (kpsi)	105 (15.2)
Flexural Modulus	ISO 178	Mpa (kpsi)	
-40C (-40F)			260 (37)
23C (73F)			117 (17)
100C (212F)			60 (9)
Hardness , Shore D	ISO 868		
15s			43
Maximum			47
Tensile Impact Strength	ISO 8256	kJ/m2	
Notched Charpy Impact Strength	Iso 179/1eA	kJ/m2	
-40C (-40F)			
-30C (-22F)			MB
23C (73F)			MB
Color			

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.