



TPE Thermoplastic Polyester Elastomer

TPE 6356

Mechanical, Physical and Thermal Properties

- For general and heavy duty applications
- Excellent resistance to oils, fats and fuels
- Excellent resistance to impact, abrasion and extrusion
- Applicable for wipers, scrapers, backup rings and anti-extrusion rings

Properties	Value	Unit	Test method
Tensile Stress			
Strain 5 %	12 (1.7)	MPa (kpsi)	ASTM D 638
Strain 10 %	16 (2.3)		
Tensile Strength at Break	41 (6.0)	MPa (kpsi)	ASTM D 638
Elongation At Break	420	%	ASTM D 638
Poisson's Ratio	0.45		ASTM E 132
Flexural Modulus			
-40°C (-40°F)	1800 (260)	MPa (kpsi)	ASTM D 790
23°C (73°F)	330 (48)		
100°C (212°F)	150 (22)		
Hardness	63	Shore D	ASTM D 2240
Izod Impact			
-40°C (-40°F), 6.35mm (0.25in)	48 (0.9)	J/m (ft lb/in)	ASTM D 256
23°C (73°F), 6.35mm (0.25in)	NB		
Ross (Pierced), 5X Cut Growth	0.5 E6	cycles	ASTM D 1052
Initial Tear Resistance, Die C	175 (1000)	kN/m (lb/in)	ASTM D 1004
Melt Flow Rate			
2.16g at 230°C	8.5	g/10 min	ASTM D 1238

