



TECHNICAL DATA SHEET

Compound :

TPE

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ORIGINAL PROPERTIES : Analysis on supplier laboratory compound

General Description

The polyester resin (TPE) is a thermoplastic material of medium form normally used in the production of anti-extrusion rings as support to the sealing elements. Compared to other elastomers, the polyester-based materials offer the most consistent performance across the entire operating temperature range, because their properties little change from one extreme to another. Typical applications are automotive and household appliances.

Available

All kind of hardness.

Physical-mechanical characteristics

*Excellent resistance to bending fatigue
Resistance to extreme temperatures
High impact resistance
High resistance to tear and abrasion
Good resistance to chemicals and weathering
High capacity load resistance
Exceptional adhesion in the over molding (ABS / PBT / PC / metals)
Exceptional strength in a wide range of temperatures
Excellent dynamic properties (for example, deformation and fatigue)
Exceptional resistance to chemical agents, oils and greases
High degree of machining versatility, with easy colorability
Good electrical insulation properties
Low moisture absorption and excellent dimensional stability.*