



NEUSoft™ 596 Ether 50

Thermoplastic Polyurethane Elastomer

Key Characteristics

Product Description

NEUSoft is a translucent polyether urethane based material with good elasticity, vibration dampening, abrasion and tear resistance. This series of polyurethanes are chemically resistant to hydrolysis and suitable for overmolding on polyolefins, ABS, PC, Pebax and nylon. NEUSoft 597-60 provides a good moisture and oxygen barrier as well as UV stability.

General

Material Status	• Commercial: Active
Regional Availability	• North America
Features	• Excellent Elastic Recovery • Good Flexibility • Good Processability • Good Chemical Resistance • Good Melt Strength • Soft
Uses	• Medical/Healthcare Applications • Overmolding • Tubing
Agency Ratings	• ISO 10993 Part 4 ¹ • ISO 10993 Part 5 ¹ • USP Class VI
Forms	• Pellets
Processing Method	• Extrusion

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.00	1.00	ASTM D792
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress (100% Strain)	432 psi	2.98 MPa	ASTM D412
Tensile Strength (Break)	2300 psi	15.9 MPa	ASTM D412
Tensile Elongation (Break)	690 %	690 %	ASTM D412
Tear Strength	209 lbf/in	36.6 kN/m	ASTM D624
Compression Set	34 %	34 %	ASTM D395
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 10 sec)	62	62	ASTM D2240

Notes

¹ *Testing completed on compounded material only.

² Typical values are not to be construed as specifications.

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