

NEUSoft™ 596 Ether 50

Thermoplastic Polyurethane Elastomer

NEU Specialty Engineered Materials

Message:

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 Information			
Features	Excellent Elastic Recovery		
	Good Chemical Resistance		
	Good Flexibility		
	Good Melt Strength		
	Good Processability		
	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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	62		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.98	MPa	ASTM D412
Tensile Strength (Break)	15.9	MPa	ASTM D412
Tensile Elongation (Break)	690	%	ASTM D412
Tear Strength	36.6	kN/m	ASTM D624
Compression Set	34	%	ASTM D395

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