

ELASTO UK Dryflex® 500450S SEBS Based Material, Unfilled Qualities, 45A Hardness, Translucent

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

The 500-series is very favorable when transparency and good scratch resistance are required, as well as when there are high surface finish requirements. Unfilled grades have excellent flow and mechanical properties, such as elongation, compression set, tensile and tear strength. The low density entails lower weight compared to the 600 and 660-series. Information from Vita Thermoplastic Polymers (VTP). Vita Thermoplastic Polymers was acquired by HEXPOL and is now ELASTO

Order this product through the following link:

http://www.lookpolymers.com/polymer_ELASTO-UK-Dryflex-500450S-SEBS-Based-Material-Unfilled-Qualities-45A-Hardness-Translucent.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.890 g/cc	0.890 g/cc	ASTM D792
Linear Mold Shrinkage	0.0080 - 0.020 cm/cm	0.0080 - 0.020 in/in	
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45 @Thickness 4.00 mm	45 @Thickness 0.157 in	ASTM D2240
Tensile Strength at Break	6.00 MPa	870 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
100% Modulus	0.00100 GPa	0.145 ksi	ASTM D638
300% Modulus	0.00200 GPa	0.290 ksi	ASTM D638
Tear Strength	18.0 kN/m	103 pli	ASTM D624
Compression Set	10 %	10 %	at 23°C, 72 hrs; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	180 - 210 °C Metric	356 - 410 °F English	Comments
Descriptive Properties	Value		Comments
Bonding to PP	Excellent		
Chemical Resistance	Good		Excluding organic solvents, aromatic and vegetable oils
Color	Translucent		
Weather Resistance	Excellent		Air ageing

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