

BASF Elastollan® S90A Polyester Type Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Processed by extrusion or injection molding. Elastollan S series of products are polyester-based thermoplastic polyurethanes that exhibit good hydrolytic stability. They also exhibit good oil, fuel and solvent resistance. These products can be injection and blow molded and extruded. As with all TPU products this grade must be dried prior to processing. Property values below are typical values based on test samples cured 20 hours at 100°C before testing. Information provided by BASF Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Elastollan-S90A-Polyester-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
Hardness, Shore D	41	41	ASTM D2240
Tensile Strength, Ultimate	37.0 MPa	5370 psi	ASTM D412
Tensile Strength, Yield	11.0 MPa	1600 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
	20.0 MPa	2900 psi	
	@Strain 300 %	@Strain 300 %	ASTM D-412
Elongation at Break	540 %	540 %	ASTM D412
Tear Strength	125 kN/m	713 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	25	25	H-18 wheel; ASTM D-1044.
Tensile Set	55 %	55 %	at break; ASTM D-412

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