

BASF Elastollan® M85A55 Polyester Type Polyurethane Elastomer

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

Material Notes:

The Elastollan M Series of products listed are part of a new series of polyester-based thermoplastic polyurethanes (TPU). They are specifically formulated for fast cycling in Injection Molding applications. Cycle time improvements of up to 25% over standard polyester grade urethanes can be obtained with M-series grades. They exhibit excellent abrasion resistance, toughness, and resistance to fuels. As with all TPU products this grade must be dried prior to processing. Property values below are typical values based on molded plaques 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-M85A55-Polyester-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	ASTM D2240
Tensile Strength, Ultimate	35.9 MPa	5210 psi	ASTM D412
Tensile Strength, Yield	8.50 MPa @Strain 100 %	1230 psi @Strain 100 %	ASTM D-412
	19.7 MPa @Strain 300 %	2860 psi @Strain 300 %	ASTM D-412
Elongation at Break	590 %	590 %	ASTM D412
Tear Strength	135 kN/m	770 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	25	25	H-18 wheel; ASTM D-1044.

Processing Properties	Metric	English	Comments
Drying Temperature	80.0 - 90.0 °C	176 - 194 °F	Must be dried. Typical condition.
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.030 %	<= 0.030 %	

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