

BASF Elastollan® 685A15N Polyester Type Polyurethane Elastomer

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

Material Notes:

This grade is FDA compliant, section 177.2600 and 177.1680, for both wet and dry contact with food. The Elastollan 600 Series of products listed are products that are part of a new series of polyester-based thermoplastic polyurethanes (TPU). They are specifically formulated for extruded profile, sheet and film applications. They exhibit excellent abrasion resistance, toughness and transparency. With respect to processing they are generally easy to process and have a very wide processing window. In some cases it is as high as 25 to 30°C. 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-685A15N-Polyester-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
Tensile Strength, Ultimate	31.3 MPa	4540 psi	ASTM D412
Tensile Strength, Yield	6.30 MPa @Strain 100 %	914 psi @Strain 100 %	ASTM D-412
	12.8 MPa @Strain 300 %	1860 psi @Strain 300 %	ASTM D-412
Elongation at Break	655 %	655 %	ASTM D412
Tear Strength	90.0 kN/m	514 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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