Elastollan® S 85 A

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, good damping and resilience performance and excellent tear strength.
Typical applications
Shoe soles, top pieces, tubes, technical parts e.g. castor tyres.

General Information	
UL YellowCard	E140250-222879
Features	Good Tear Strength Good Wear Resistance Resilient
Uses	Footwear Tubing
Processing Method	Blow Molding Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm³	ISO 1183/A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A, 3 sec)	85		ISO 7619
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Abrasion Loss	35.0	mm³	ISO 4649-A
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			DIN 53504
20% Strain	2.00	MPa	
100% Strain	5.00	MPa	
300% Strain	8.00	MPa	
Tensile Stress (Yield)	55.0	MPa	DIN 53504
Tensile Elongation (Break)	650	%	DIN 53504
Tear Strength [1]	70	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	35	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179

-30°C	No Break	
23°C	No Break	
Injection	**Nominal Value**	**Unit**
Processing (Melt) Temp	175 to 240	°C
Mold Temperature	20.0 to 70.0	°C
Extrusion	**Nominal Value**	**Unit**
Melt Temperature	175 to 220	°C
NOTE		
1.	Method Bb, Angle (Nicked)	

Recommended distributors for this material

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WECHAT