

Estane® 2355-85ABR TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

2355-85ABR is a thermoplastic polyurethane elastomer.

Feature: FDA and USDA compliance, Blend resin

General Information			
Uses	Mixing		
Agency Ratings	FDA not rated		
	USDA Unspecified Approval		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/8.7 kg)	52	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.10 - 0.50	%	ASTM D955
Transverse flow	0.40 - 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	87		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 g, H-22 Wheel)	15.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain, 3.20mm	5.50	MPa	ASTM D412
100% strain, 3.20mm	5.90	MPa	ASTM D412
300% strain, 3.20mm	9.00	MPa	ASTM D412
Tensile Strength (Break, 3.20 mm)	31.0	MPa	ASTM D412
Tensile Elongation (Break, 3.20 mm)	630	%	ASTM D412
Tensile Elongation at Break (3.20 mm)	80	%	ASTM D412
Tear Strength ¹ (3.20 mm)	78.8	kN/m	ASTM D624
Compression Set			ASTM D395B
25°C, 22 hr	30	%	ASTM D395B
70°C, 22 hr	75	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-36.0	°C	DSC
Vicat Softening Temperature	76.1	°C	ASTM D1525 ²
CLTE - Flow	1.6E-4	cm/cm/°C	ASTM D696

Injection	Nominal Value	Unit
Drying Temperature	82.0 - 93.0	°C
Processing (Melt) Temp	171 - 182	°C
Mold Temperature	16.0 - 60.0	°C
Injection instructions		
Air Dew Point: <-40°C		
Extrusion	Nominal Value	Unit
Drying Temperature	82.0 - 93.0	°C
Melt Temperature	166 - 182	°C
Extrusion instructions		
Air Dew Point: <-40°C		
NOTE		
1.	C mould	
2.	标准 B (120°C/h), 压力1 (10N)	

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