

Estane® 2355-95AE TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

2355-95AE is a thermoplastic polyurethane elastomer.

Feature: Fuel resistant, extrusion laminate coating

General Information			
Features	Fuel resistance		
Uses	Laminate		
	Coating application		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/8.7 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.50 - 0.90	%	ASTM D955
Transverse flow	0.60 - 0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	94		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (3.20 mm)	89.6	MPa	ASTM D790
Taber Abrasion Resistance (1000 g, H-22 Wheel)	4.00	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain, 3.20mm	8.30	MPa	ASTM D412
100% strain, 3.20mm	9.70	MPa	ASTM D412
300% strain, 3.20mm	21.4	MPa	ASTM D412
Tensile Strength (Break, 3.20 mm)	38.9	MPa	ASTM D412
Tensile Elongation (Break, 3.20 mm)	450	%	ASTM D412
Tensile Elongation at Break (3.20 mm)	60	%	ASTM D412
Tear Strength ¹ (3.20 mm)	105	kN/m	ASTM D624
Compression Set			ASTM D395B
25°C, 22 hr	30	%	ASTM D395B
70°C, 22 hr	80	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-15.0	°C	DSC
Vicat Softening Temperature	80.6	°C	ASTM D1525 ²

CLTE - Flow	1.5E-4	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	88.0 - 104	°C	
Mold Temperature	16.0 - 60.0	°C	
Injection instructions			
Air Dew Point: <-40°C			
Extrusion	Nominal Value	Unit	
Drying Temperature	88.0 - 104	°C	
Melt Temperature	182 - 199	°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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