Estane® 2355-95AE TPU

Tuesday, November 5, 2019

Lubrizol Advanced Materials, Inc. - Thermoplastic Polyurethane Elastomer (Polyester)

General Information

Product Description

2355-95AE is a thermoplastic polyurethane elastomer.

Feature: Fuel resistant, extrusion laminate coating

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Features	• Fuel Resistant		
Uses	• Coating Applications	• Laminates	
Forms	• Pellets		
Processing Method	• Extrusion Coating		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Melt Mass-Flow Rate (190°C/8.7 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 9.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow	6.0E-3 to 9.0E-3	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus (0.126 in)	13000	psi	ASTM D790
Taber Abrasion Resistance (1000 g, H-22 Wheel)	4.00	mg	ASTM D1044
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (50% Strain, 0.126 in)	1200	psi	ASTM D412
Tensile Stress (100% Strain, 0.126 in)	1410	psi	ASTM D412
Tensile Stress (300% Strain, 0.126 in)	3100	psi	ASTM D412
Tensile Strength (Break, 0.126 in)	5640	psi	ASTM D412
Tensile Elongation (Break, 0.126 in)	450	%	ASTM D412
Elongation Set After Break (0.126 in)	60	%	ASTM D412
Tear Strength [2] (0.126 in)	600	lbf/in	ASTM D624
Compression Set			ASTM D395B
77°F, 22 hr	30	%	
158°F, 22 hr	80	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	94		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	5.00	°F	DSC
Vicat Softening Temperature	177	°F	ASTM D1525 [3]
CLTE - Flow	8.5E-5	in/in/°F	ASTM D696

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	190 to 219	°F
Mold Temperature	61 to 140	°F

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Injection Notes
Air Dew Point: <-40°C

Extrusion	Nominal Value	Unit
Drying Temperature	190 to 219	°F
Melt Temperature	360 to 390	°F

Extrusion Notes
Air Dew Point: <-40°C

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Die C

[3] Rate B (120°C/h), Loading 1 (10 N)