



## Estane® 2355-75A TPU

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

Tuesday, November 5, 2019

### General Information

#### Product Description

2355-75A is a thermoplastic polyurethane elastomer.

Feature: Memory and elasticity, Impact modification

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier		
Features	• Impact Modified		
Forms	• Pellets		
Processing Method	• Injection Molding		

### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.19		ASTM D792
Melt Mass-Flow Rate (224°C/8.7 kg)	28	g/10 min	ASTM D1238
Molding Shrinkage - Flow	-1.0E-3 to 6.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 g, H-22 Wheel)	28.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (50% Strain, 0.126 in)	435	psi	ASTM D412
Tensile Stress (100% Strain, 0.126 in)	711	psi	ASTM D412
Tensile Stress (300% Strain, 0.126 in)	1520	psi	ASTM D412
Tensile Strength (Break, 0.126 in)	5120	psi	ASTM D412
Tensile Elongation (Break, 0.126 in)	530	%	ASTM D412
Elongation Set After Break (0.126 in)	30	%	ASTM D412
Tear Strength <sup>2</sup> (0.126 in)	450	lbf/in	ASTM D624
Compression Set			ASTM D395B
77°F, 22 hr	25	%	
158°F, 22 hr	30	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	83		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-43.6	°F	DSC
Vicat Softening Temperature	171	°F	ASTM D1525 <sup>3</sup>
CLTE - Flow	9.5E-5	in/in/°F	ASTM D696

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180 to 199	°F
Processing (Melt) Temp	370 to 399	°F

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Injection	Nominal Value	Unit
Mold Temperature	61 to 140	°F

## Injection Notes

Air Dew Point: <-40°C

Extrusion	Nominal Value	Unit
Drying Temperature	180 to 199	°F
Melt Temperature	351 to 390	°F

## Extrusion Notes

Air Dew Point: <-40°C

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Die C

<sup>3</sup> Rate B (120°C/h), Loading 1 (10 N)