



Estane® CP80AS2 TPU

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

Wednesday, November 6, 2019

General Information

Product Description

Type: Estane® CP80AS2 TPU is a soft, polyester based thermoplastic polyurethane resin.

Features: Outstanding compatibility with flexible PVC allowing easy dispersion without pre-compounding.

Uses: Tube/Hose & Sheet Extrusion, Wire/Cable

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Uses	• Hose • Sheet	• Tubing • Wire & Cable Applications	
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Extrusion	• Sheet Extrusion	• Wire & Cable Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.15		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance 1000 Cycles, 1000 g, H-18 Wheel	14.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	566	psi	ASTM D412
Tensile Stress (300% Strain)	1220	psi	ASTM D412
Tensile Strength (Break)	4060	psi	ASTM D412
Tensile Elongation (Break)	470	%	ASTM D412
Tear Strength ²	353	lbf/in	ASTM D624
Tear Strength (Split)	120	lbf/in	ASTM D470
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	81		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-22.0	°F	DSC
Melting Temperature	284	°F	DSC

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	149	°F
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	338	°F
Cylinder Zone 2 Temp.	347	°F
Cylinder Zone 3 Temp.	356	°F
Cylinder Zone 4 Temp.	356	°F
Adapter Temperature	356	°F

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Extrusion	Nominal Value	Unit
Die Temperature	356	°F

Extrusion Notes

Dew Point: -40°C

Screen Pack Recommendation: 20/40/80/20

Notes

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

² Die C