

Estane® CP80AS2 TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

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 Information			
UL YellowCard	E106426-100036407		
Uses	Wire and cable applications		
	Pipe		
	Pipe fittings		
	Sheet		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Wire & Cable Extrusion		
	Extrusion		
	Sheet extrusion molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	81		ASTM D2240

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			ASTM D412
100% strain	3.90	MPa	ASTM D412
300% strain	8.40	MPa	ASTM D412
Tensile Strength (Break)	28.0	MPa	ASTM D412
Tensile Elongation (Break)	470	%	ASTM D412
Tear Strength			
-- ¹	61.8	kN/m	ASTM D624
Cracking	22	kN/m	ASTM D470

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-30.0	°C	DSC
Melting Temperature	140	°C	DSC

Extrusion	Nominal Value	Unit	
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Drying Temperature	65.0	°C
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	170	°C
Cylinder Zone 2 Temp.	175	°C
Cylinder Zone 3 Temp.	180	°C
Cylinder Zone 4 Temp.	180	°C
Adapter Temperature	180	°C
Die Temperature	180	°C

Extrusion instructions

Dew Point: -40°C Screen Pack Recommendation: 20/40/80/20

NOTE

1.
- C mould

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Recommended distributors for this material

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