

Lubrizol Estane® CP80AS2 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Type: Estane® CP80AS2 is a soft, polyester based thermoplastic polyurethane resin.Features: Outstanding compatibility with flexible PVC allowing easy dispersion without pre-compounding.Uses: Tube/Hose and Sheet Extrusion, Wire/CableAvailable in Americas, Europe, Middle East, Africa, India and AsiaInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-CP80AS2-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
	1.15 g/cc	1.15 g/cc	PVC (80)/CP80AS2(20)
	1.15 g/cc	1.15 g/cc	PVC (70)/CP80AS2(30)
	1.15 g/cc	1.15 g/cc	PVC (50)/CP80AS2(50)
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	62	62	PVC (80)/CP80AS2(20)
	63	63	PVC (70)/CP80AS2(30)
	65	65	PVC (50)/CP80AS2(50)
	81	81	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength at Break	15.9 MPa	2310 psi	PVC (80)/CP80AS2(20)
	18.6 MPa	2700 psi	PVC (70)/CP80AS2(30)
	24.1 MPa	3500 psi	PVC (50)/CP80AS2(50)
Tensile Strength, Ultimate	27.6 MPa	4000 psi	ASTM D412
Elongation at Break	470 %	470 %	ASTM D412
	540 %	540 %	PVC (80)/CP80AS2(20)
	580 %	580 %	PVC (70)/CP80AS2(30)
	665 %	665 %	PVC (50)/CP80AS2(50)
100% Modulus	0.00390 GPa	0.566 ksi	ASTM D412

Mechanical Properties	Metric	English	Comments
Flexural Modulus	0.00383 GPa	0.555 ksi	PVC (80)/CP80AS2(20)
	0.00434 GPa	0.630 ksi	PVC (70)/CP80AS2(30)
	0.00579 GPa	0.840 ksi	PVC (50)/CP80AS2(50)
Tear Strength	5.43 kN/m	31.0 pli	Trouser, PVC (80)/CP80AS2(20)
	7.01 kN/m	40.0 pli	Trouser, PVC (70)/CP80AS2(30)
	11.7 kN/m	67.0 pli	Trouser, PVC (50)/CP80AS2(50)
	21.9 kN/m	125 pli	Trouser; ASTM D470
Graves Tear Strength	29.8 kN/m	170 pli	PVC (80)/CP80AS2(20)
	33.3 kN/m	190 pli	PVC (70)/CP80AS2(30)
	47.3 kN/m	270 pli	PVC (50)/CP80AS2(50)
	63.1 kN/m	360 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	86	86	PVC (50)/CP80AS2(50)
	128	128	PVC (70)/CP80AS2(30)
	146	146	PVC (80)/CP80AS2(20)
	14	14	H-18 wheel; ASTM D3389
	@Load 1.00 kg	@Load 2.20 lb	
Abrasion	83	83	[mm ³], PVC (50)/CP80AS2(50)
	126	126	[mm ³], PVC (70)/CP80AS2(30)
	148	148	[mm ³], PVC (80)/CP80AS2(20)
Compression Set	13 %	13 %	PVC (80)/CP80AS2(20)
	16 %	16 %	PVC (70)/CP80AS2(30)
	19 %	19 %	PVC (50)/CP80AS2(50)
Tensile Set	14 %	14 %	PVC (50)/CP80AS2(50)
	16 %	16 %	PVC (70)/CP80AS2(30)
	19 %	19 %	PVC (80)/CP80AS2(20)

Thermal Properties	Metric	English	Comments
Melting Point	140 °C	284 °F	DSC
Glass Transition Temp, Tg	-30.0 °C	-22.0 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	170 °C	338 °F	Extrusion
Zone 2	175 °C	347 °F	Extrusion
Zone 3	180 °C	356 °F	Extrusion
Zone 4	180 °C	356 °F	Extrusion
Adapter Temperature	180 °C	356 °F	5, Extrusion
Die Temperature	180 °C	356 °F	6, Zone 1, Extrusion
	180 °C	356 °F	Zone 2, Extrusion
Drying Temperature	150 °C	302 °F	overnight
Dew Point	-40.0 °C	-40.0 °F	

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