

Estane® TS92AP7 NAT 021

Thermoplastic Polyurethane Elastomer (PC Based)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® TS92AP7 NAT 021 is an aromatic polycarbonate-based thermoplastic polyurethane.

Application: Extrusion

General Information			
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	93		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	39.0	mm ³	ISO 4649-A
Films	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 527-3/200
Fracture	60.0	MPa	ISO 527-3/200
50% strain	14.0	MPa	ISO 527-3/200
100% strain	18.0	MPa	ISO 527-3/200
300% strain	44.0	MPa	ISO 527-3/200
Tensile Elongation ² (Break)	380	%	ISO 527-3/200
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³	100	kN/m	ISO 34-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	88.0	°C	ISO 306/A50
Extrusion	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0 - 4.0	hr	
Cylinder Zone 1 Temp.	200	°C	
Cylinder Zone 2 Temp.	205	°C	
Cylinder Zone 3 Temp.	210	°C	
Cylinder Zone 4 Temp.	210	°C	
Adapter Temperature	210	°C	
Die Temperature	205	°C	
Extrusion instructions			
Dew Point: -30°C to -40°C Die Tip: 200°C			
NOTE			

1.	Type 5A
2.	Type 5A
3.	Method B, right-angle specimen (cut)

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