

Monprene® SP-29969

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene SP-29969 is a high performance thermoplastic elastomer that is designed for a variety of consumer applications including sporting goods, and is available in colors. Monprene SP-29969 is a translucent, medium hardness, low density, UV resistant grade that is designed for extrusion and also suitable for injection molding.

General Information	
Features	Low density
	Good UV resistance
	Workability, good
	Good coloring
	Good wear resistance
	Good adhesion
	Good chemical resistance
	Good toughness
	Medium hardness
Uses	Handle
	Washer
	Sporting goods
	Consumer goods application field
RoHS Compliance	RoHS compliance
Appearance	White
	Translucent
	Natural color
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	24	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	70		ASTM D2240
Shaw A, 5 seconds	68		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress - Flow			ASTM D412
100% strain	4.14	MPa	ASTM D412
200% strain	4.48	MPa	ASTM D412
300% strain	4.83	MPa	ASTM D412
Tensile Strength - Flow (Break)	10.6	MPa	ASTM D412
Tensile Elongation - Flow (Break)	780	%	ASTM D412

Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	182 - 232	°C
Middle Temperature	188 - 238	°C
Front Temperature	193 - 243	°C
Nozzle Temperature	199 - 249	°C
Processing (Melt) Temp	199 - 249	°C
Mold Temperature	35 - 49	°C
Injection Pressure	1.38 - 5.52	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

Injection instructions

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	182 - 232	°C
Cylinder Zone 2 Temp.	188 - 238	°C
Cylinder Zone 3 Temp.	193 - 243	°C
Cylinder Zone 4 Temp.	199 - 249	°C
Cylinder Zone 5 Temp.	199 - 249	°C
Die Temperature	199 - 249	°C

Extrusion instructions

Screw Speed: 30 to 100 rpm

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