

# Monprene® CP-32263 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Monprene CP-32263 is a high performance thermoplastic elastomer, available in NAT and colors, designed for a variety of industrial and consumer product applications, including seals and gaskets, requiring low extraction by various solvents. Monprene CP-32263 is a high clarity, medium hardness, low density, elastic grade with good flow that is suitable for injection molding and extrusion.

General Information			
Features	Low Specific Gravity		
	Low extract		
	Low density		
	Solvent resistance		
	Workability, good		
	Good coloring		
	Good adhesion		
	Good chemical resistance		
	Kink resistance		
	Definition, high		
	Elastic		
	Medium hardness		
Uses	O-rings		
	Washer		
	Washer		
	Pipe fittings		
	Insulating material		
	Seals		
	Rubber substitution		
RoHS Compliance	RoHS compliance		
Appearance	Available colors		
	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm <sup>3</sup>	ASTM D792

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	67		ASTM D2240
Shaw A, 5 seconds	64		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	2.24	MPa	ASTM D412
100% strain	2.65	MPa	ASTM D412
300% strain	4.24	MPa	ASTM D412
Tensile Strength (Break)	11.9	MPa	ASTM D412
Tensile Elongation (Break)	630	%	ASTM D412
Tear Strength	43.3	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	18	%	ASTM D395
70°C, 22 hr	86	%	ASTM D395

#### Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	149 - 171	°C
Middle Temperature	171 - 193	°C
Front Temperature	193 - 227	°C
Nozzle Temperature	193 - 227	°C
Processing (Melt) Temp	193 - 227	°C
Mold Temperature	21 - 52	°C
Back Pressure	0.345 - 1.03	MPa
Screw Speed	50 - 100	rpm
Cushion	3.56 - 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.	171 - 188	°C
Cylinder Zone 2 Temp.	182 - 196	°C
Cylinder Zone 3 Temp.	185 - 204	°C
Cylinder Zone 4 Temp.	204 - 227	°C
Cylinder Zone 5 Temp.	204 - 227	°C
Die Temperature	204 - 227	°C

## Extrusion instructions

Screw Speed: 30 to 100 rpm. Screen Pack Recommendation: 60/200/200/60 to 60/200/400/400/200/60 mesh size.

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## Recommended distributors for this material

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