Monprene® CP-32273 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene CP-32273 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-32273 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 liquidity
	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/cm³	ASTM D792

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	71		ASTM D2240
Shaw A, 5 seconds	76		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	3.83	MPa	ASTM D412
100% strain	4.21	MPa	ASTM D412
300% strain	6.07	MPa	ASTM D412
Tensile Strength (Break)	14.4	MPa	ASTM D412
Tensile Elongation (Break)	630	%	ASTM D412
Tear Strength	56.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	21	%	ASTM D395
70°C, 22 hr	82	%	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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