

# Monprene® CP-30120 XRD (PRELIMINARY DATA)

Thermoplastic Elastomer  
Teknor Apex Company

**Message:**  
Monprene CP-30120 XRD is a general purpose thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-30120 XRD is a medium density, low hardness grade that exhibits excellent anti-vibration characteristics. This grade is suitable for both injection molding and extrusion.

General Information	
Features	Workability, good
	Good formability
	Good melt strength
	Good flexibility
	Good coloring
	Low liquidity
	Fill
	Extended tensile rate
	Hardness, low
	Medium density
Uses	Handle
	Films
	Plug
	Bushing
	Washer
	Washer
	Pipe fittings
	Seals
	Leather case
	Soft touch application
	Soft handle
	General
	Rubber substitution
	Consumer goods application field
	Profile
	Knob
RoHS Compliance	RoHS compliance

Appearance	Opacity Available colors Natural color
Forms	Particle
Processing Method	Extrusion cast film Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	22		ASTM D2240
Shore A, 5 seconds, injection molding	20		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup>			ASTM D412
Transverse flow: 100% strain	0.407	MPa	ASTM D412
Flow: 100% strain	0.683	MPa	ASTM D412
Transverse flow: 300% strain	0.876	MPa	ASTM D412
Flow: 300% strain	1.34	MPa	ASTM D412
Tensile Strength <sup>2</sup>			ASTM D412
Transverse flow: Fracture	5.06	MPa	ASTM D412
Flow: Fracture	1.52	MPa	ASTM D412
Tensile Elongation <sup>3</sup>			ASTM D412
Transverse flow: Fracture	690	%	ASTM D412
Flow: Fracture	470	%	ASTM D412
Tear Strength <sup>4</sup>			ASTM D624
Transverse flow	16.5	kN/m	ASTM D624
Flow	8.58	kN/m	ASTM D624
Compression Set <sup>5</sup>			ASTM D395B
23°C, 22 hr	7.9	%	ASTM D395B
70°C, 22 hr	31	%	ASTM D395B

#### Legal statement

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Injection	Nominal Value	Unit
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Rear Temperature	227 - 249	°C
Middle Temperature	227 - 249	°C
Front Temperature	227 - 249	°C
Nozzle Temperature	227 - 249	°C
Processing (Melt) Temp	227 - 249	°C
Mold Temperature	16 - 32	°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.	216 - 238	°C
Cylinder Zone 2 Temp.	216 - 238	°C
Cylinder Zone 3 Temp.	216 - 238	°C
Cylinder Zone 4 Temp.	216 - 238	°C
Cylinder Zone 5 Temp.	216 - 238	°C
Die Temperature	216 - 238	°C

#### Extrusion instructions

Screw Speed: 30 to 100 rpm

#### NOTE

1. C mold, 510mm/min
2. C mold, 510mm/min
3. C mold, 510mm/min
4. C mold, 510mm/min
5. Type 1

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#### Recommended distributors for this material

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