

Monprene® CP-19141

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene® CP-19141 is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Monprene® The main features of the CP-19141 are:

low hardness

high liquidity

Typical application areas include:

kitchen utensils

engineering/industrial accessories

business/office supplies

Consumer goods

Handle

General Information			
Features	Low Specific Gravity		
	Without Fillers		
	Low density		
	smoothness		
	High liquidity		
	Lubrication		
	Hardness, low		
Uses	Handle		
	Kitchen utensils		
	Washer		
	Stationery		
	Consumer goods application field		
Appearance	Translucent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.908	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	45		ASTM D2240
Shore A, 5 seconds, injection molding	42		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412

Transverse flow: 100% strain ¹	0.779	MPa	ASTM D412
Flow: 100% strain ²	3.13	MPa	ASTM D412
Transverse flow: 300% strain ³	1.64	MPa	ASTM D412
Flow: 300% strain ⁴	4.77	MPa	ASTM D412
Tensile Strength ⁵			ASTM D412
Transverse flow: Fracture	13.1	MPa	ASTM D412
Flow: Fracture	6.81	MPa	ASTM D412
Tensile Elongation ⁶			ASTM D412
Transverse flow: Fracture	560	%	ASTM D412
Flow: Fracture	620	%	ASTM D412
Tear Strength ⁷			ASTM D624
Transverse flow	42.4	kN/m	ASTM D624
Flow	27.3	kN/m	ASTM D624
Compression Set ⁸ (23°C, 22 hr)	17	%	ASTM D395B

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	10.0 - 32.2	°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

无需干燥.但如果湿度过大,则将粒料在150°F (65°C)的温度下干燥2-4小时.

NOTE

1. Mouth die C, 510mm/min
2. Mouth die C, 510mm/min
3. C mold, 510mm/min
4. C mold, 510mm/min
5. C mold, 510mm/min
6. Mouth die C, 510mm/min
7. C mold, 510mm/min
8. Type 1

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