Monprene® PC-12235

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene PC-12235 is a high performance thermoplastic elastomer, available in NAT and colors, designed for a variety of personal care consumer product applications requiring a soft, rubber-like feel. Monprene PC-12235 is a low hardness, low density, high flow grade designed for injection molding.

Low density Workability, good Good formability Good flexibility Good coloring Good adhesion High liquidity Good chemical resistance Good demoulding performance Halogen-free Hardness, low Elastic lises Handle overmolding Washer Soft touch application Soft bandle
Good formability Good flexibility Good coloring Good adhesion High liquidity Good chemical resistance Good demoulding performance Halogen-free Baster Vermolding Vermolding
Good flexibility Good coloring Good adhesion High liquidity Good chemical resistance Good demoulding performance Halogen-free Hardness, low Elastic Vermolding Vermolding Soft cuch application
Good coloring Good adhesion High liquidity Good chemical resistance Good demoulding performance Halogen-free Hardness, low Elastic Jose Mandle Overmolding Kes Handle Soft touch application
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Good chemical resistance Good demoulding performance Halogen-free Hardness, low Elastic Ises Handle overmolding Washer Soft touch application
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Hardness, low Elastic Ises Handle overmolding Washer Soft touch application
Elastic Uses Handle overmolding Washer Soft touch application
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overmolding Washer Soft touch application
overmolding Washer Soft touch application
Washer Soft touch application
Soft touch application
Coff bandle
Soft handle
Rubber substitution
Consumer goods application field
Profile
Toothbrush handle
agency Ratings FDA not rated
toHS Compliance RoHS compliance
Appearance Light Blue
Translucent
Orange
Pink
Blue
Natural color

Ex	trusion	

Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.891	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	13	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	44		ASTM D2240
Shaw A, 5 seconds	41		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
Transverse flow: 100% strain	0.851	MPa	ASTM D412
Flow: 100% strain	1.44	MPa	ASTM D412
Tensile Strength ²			ASTM D412
Transverse flow: Fracture	4.60	MPa	ASTM D412
Flow: Fracture	4.29	MPa	ASTM D412
Tensile Elongation ³			ASTM D412
Transverse flow: Fracture	770	%	ASTM D412
Flow: Fracture	730	%	ASTM D412
Tear Strength ⁴			ASTM D624
Transverse flow	19.5	kN/m	ASTM D624
Flow	22.6	kN/m	ASTM D624
Compression Set ⁵			ASTM D395
23°C, 22 hr	19	%	ASTM D395
70°C, 22 hr	99	%	ASTM D395
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	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, i	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.	193 - 243	°C	
Cylinder Zone 5 Temp.	199 - 249	°C	
Die Temperature	199 - 249	°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.	Туре 1		

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