

Monprene® MP-2465A

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene MP-2465A is a general purpose thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene MP-2465A is a lubricated, medium hardness grade, suitable for injection molding and extrusion.

General Information			
Features	High density		
	smoothness		
	Low liquidity		
	Lubrication		
	Fill		
	Medium hardness		
Uses	Safety equipment		
	Handle		
	Washer		
	Pipe fittings		
	Sporting goods		
	Stationery		
	Consumer goods application field		
RoHS Compliance	RoHS compliance		
Appearance	Opacity		
	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	78		ASTM D2240
Shore A, 5 seconds, injection molding	75		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412

Transverse flow: 100% strain	2.99	MPa	ASTM D412
Flow: 100% strain	3.89	MPa	ASTM D412
Transverse flow: 300% strain	4.02	MPa	ASTM D412
Flow: 300% strain	4.97	MPa	ASTM D412
Tensile Strength ²			ASTM D412
Transverse flow: Fracture	10.6	MPa	ASTM D412
Flow: Fracture	8.29	MPa	ASTM D412
Tensile Elongation ³			ASTM D412
Transverse flow: Fracture	710	%	ASTM D412
Flow: Fracture	590	%	ASTM D412
Tear Strength ⁴			ASTM D624
Transverse flow	39.6	kN/m	ASTM D624
Flow	36.8	kN/m	ASTM D624
Compression Set ⁵			ASTM D395B
23°C, 22 hr	29	%	ASTM D395B
70°C, 22 hr	63	%	ASTM D395B

Legal statement

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Injection	Nominal Value	Unit
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

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.

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		
螺杆转速30 - 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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

