

# Gallonprene® GP420-4501

Thermoplastic Elastomer

Shenzhen Sungallon Rubber & Plastic Corporation Limited

Message:

Gallonprene® GP420-4501 is a thermoplastic elastomer (TPE) product. It can be processed by injection molding and is available in Africa and the Middle East, Latin America or Asia Pacific. Gallonprene® GP420-4501 application areas include engineering/industrial accessories, consumer goods and handles. Features include:  
Comply with REACH standard  
ROHS certification  
high gloss  
Halogen-free

General Information			
Features	Highlight		
	Sprayable		
	Halogen-free		
Uses	overmolding		
	Soft handle		
	Toys		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	White		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.968	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/2.16 kg)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 23°C)	45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Break)	4.80	MPa	ASTM D412
Tensile Elongation <sup>2</sup> (Break)	650	%	ASTM D412
Injection	Nominal Value	Unit	
Rear Temperature	140 - 160	°C	
Middle Temperature	150 - 170	°C	
Front Temperature	160 - 180	°C	
Processing (Melt) Temp	120 - 140	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Moderate		
Injection instructions			

Processing Temperature Limit: 220°CInjection Pressure: ModerateBack Pressure: 20 to 50%Overmolding Parameters:Rear Temperature: 155 to 175°C  
Center Temperature: 165 to 185°CFront Temperature: 175 to 195°C  
Melt Temperature: 120 to 140°C  
Mold Temperature: 30 to 60°C  
Processing Temperature Limit: 220°CInjection Pressure: ModerateInjection Speed: ModerateBack Pressure: 20 to 50%

#### NOTE

- |    |            |
|----|------------|
| 1. | 500 mm/min |
| 2. | 500 mm/min |

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#### Recommended distributors for this material

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