

# Gallonprene® GP520-4503

Thermoplastic Elastomer

Shenzhen Sungallon Rubber & Plastic Corporation Limited

Message:

Gallonprene® GP520-4503 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® GP520-4503 application areas include engineering/industrial accessories, home applications and handles. Features include:  
Comply with REACH standard  
ROHS certification  
Halogen-free

General Information			
Features	High elasticity		
	Halogen-free		
Uses	O-rings		
	overmolding		
	Household goods		
	Soft handle		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	White		
	Rough surface polishing		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	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)	4.20	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	110 - 130	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Moderate		

#### Injection instructions

Processing Temperature Limit: 260°C Injection Pressure: Moderate Back Pressure: 20 to 50% Overmolding Parameters: Rear Temperature: 160 to 180°C Center Temperature: 170 to 190°C Front Temperature: 180 to 200°C Melt Temperature: 110 to 130°C Mold Temperature: 30 to 60°C Processing Temperature Limit: 220°C Injection Pressure: Moderate Injection Speed: Moderate Back Pressure: 20 to 50%

#### NOTE

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

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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



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