

# Gallonprene® GP210-4511

Thermoplastic Elastomer

Shenzhen Sungallon Rubber & Plastic Corporation Limited

## Message:

Gallonprene® GP210-4511 is a thermoplastic elastomer (TPE) product. It can be processed by extrusion, profile extrusion or injection molding, and is available in Africa and the Middle East, Latin America or the Asia-Pacific region. Gallonprene® GP210-4511 application areas include engineering/industrial fittings and hoses.

Features include:

Comply with REACH standard

ROHS certification

Halogen-free

General Information			
Features	Halogen-free		
Uses	O-rings		
	overmolding		
	Pipe fittings		
	Profile		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
	Rough surface polishing		
Processing Method	Extrusion		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.868	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/10.0 kg)	8.5	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)	7.00	MPa	ASTM D412
Tensile Elongation <sup>2</sup> (Break)	700	%	ASTM D412
Injection	Nominal Value	Unit	
Rear Temperature	200 - 220	°C	
Middle Temperature	210 - 230	°C	
Front Temperature	220 - 240	°C	
Processing (Melt) Temp	180 - 200	°C	

Mold Temperature	30.0 - 60.0	°C
Injection Rate	Fast	
Injection instructions		
Processing Temperature Limit: 280°CInjection Pressure: HighBack Pressure: 20 to 50%Overmolding Parameters:Rear Temperature: 210 to 230°CCenter Temperature: 220 to 240°CFront Temperature: 230 to 250°C Melt Temperature: 180 to 200°C Mold Temperature: 30 to 60°CProcessing Temperature Limit: 280°CInjection Pressure: HighInjection Speed: HighBack Pressure: 20 to 50%		
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160 - 180	°C
Cylinder Zone 2 Temp.	170 - 190	°C
Cylinder Zone 3 Temp.	180 - 200	°C
NOTE		
1.	500 mm/min	
2.	500 mm/min	

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