

Gallonprene® GP310-9001

Thermoplastic Elastomer

Shenzhen Sungallon Rubber & Plastic Corporation Limited

Message:

Gallonprene® GP310-9001 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® GP310-9001 application areas include electrical/electronic applications, engineering/industrial accessories, hoses and consumer goods.

Features include:

Comply with REACH standard

ROHS certification

high gloss

Halogen-free

General Information	
Features	Highlight
	Halogen-free
Uses	overmolding
	Pipe fittings
	Mobile phone
	Footwear
	Profile
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS compliance
Appearance	Clear/transparent
Processing Method	Extrusion
	Profile extrusion molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	19	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 23°C)	91		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion (23°C)	58	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% strain	5.20	MPa	ASTM D412
200% strain	7.40	MPa	ASTM D412
300% strain	10.5	MPa	ASTM D412

Tensile Strength ² (Break)	32.0	MPa	ASTM D412
Tensile Elongation ³ (Break)	600	%	ASTM D412
Tear Strength ⁴	82.0	kN/m	ASTM D624

Injection	Nominal Value	Unit
Rear Temperature	150 - 160	°C
Middle Temperature	160 - 180	°C
Front Temperature	170 - 190	°C
Processing (Melt) Temp	130 - 150	°C
Mold Temperature	30.0 - 60.0	°C
Injection Rate	Moderate	

Injection instructions

Processing Temperature Limit: 230°C Injection Pressure: Moderate Back Pressure: 20 to 50% Overmolding Parameters: Rear Temperature: 170 to 190°C Center Temperature: 180 to 200°C Front Temperature: 190 to 210°C Melt Temperature: 130 to 150°C Mold Temperature: 30 to 60°C Processing Temperature Limit: 230°C Injection Pressure: Moderate Injection Speed: Moderate Back Pressure: 20 to 50%

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	125 - 145	°C
Cylinder Zone 2 Temp.	135 - 155	°C
Cylinder Zone 3 Temp.	145 - 165	°C

NOTE

1. 500 mm/min
2. 500 mm/min
3. 500 mm/min
4. 500 mm/min

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