

Gallonprene® GP310-8501

Thermoplastic Elastomer

Shenzhen Sungallon Rubber & Plastic Corporation Limited

Message:

Gallonprene® GP310-8501 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® GP310-8501 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)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 23°C)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion (23°C)	60	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% strain	5.00	MPa	ASTM D412
200% strain	7.00	MPa	ASTM D412
300% strain	10.0	MPa	ASTM D412

Tensile Strength ² (Break)	30.0	MPa	ASTM D412
Tensile Elongation ³ (Break)	600	%	ASTM D412
Tear Strength ⁴	80.0	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°CInjection Pressure: ModerateBack Pressure: 20 to 50%Overmolding Parameters:Rear Temperature: 170 to 190°CCenter Temperature: 180 to 200°CFront Temperature: 190 to 210°C Melt Temperature: 130 to 150°C Mold Temperature: 30 to 60°CProcessing Temperature Limit: 230°CInjection Pressure: ModerateInjection Speed: ModerateBack 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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