Gallonprene® GP100-5001

Thermoplastic Elastomer

Shenzhen Sungallon Rubber & Plastic Corporation Limited

Message:

Gallonprene®GP100-5001 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®GP100-5001 application areas include engineering/industrial accessories, consumer goods and handles. Features include: Comply with REACH standard ROHS certification

high gloss

Halogen-free

Features Highlight Sprayable Sprayable Halogen-free Soft handle Soft handle Soft handle Toys Soft handle Agency Ratings EC 1907/2006 (REACH) RoHS Compliance Clear/transparent Processing Method Injection molding Physical Nominal Value Unit Specific Gravity 0.918 g/I0 min Specific Gravity 0.918 g/I0 min Meth Mass-Flow Rate (MFR) (200°C/0.325 J g/I0 min Kgl Soft Action Test Method Durometer Hardness (Shore A. 23°C) SO STEM D1238 Farahness Nominal Value Unit Test Method Durometer Hardness (Shore A. 23°C) SO STEM D1238 Farahness Nominal Value Unit Test Method Tessile Eleastomere Nominal Value Unit Test Method Tessile Eleastomere 120 - 140 °C Test Method Middle Temperature 130 - 150 °C Test Method Middle Temperature 130 - 160 °C Te	General Information			
Halogen-freeUsesovermoldingSoft handleSoft handleToysToysAgency RatingsEC 1907/2006 (REACH)RoHS ComplianceRoHS complianceAppearanceClear/transparentProcessing MethodIoletion moldingPhysicalNormial ValueUnitSpecific Gravity0.918g/cm ³¹ Agency Rate (MFR) (200°C/0.232g/10 minASTM D792KglJog/10 minASTM D792HardnessNormial ValueUnitTest MethodDurometer Hardness (Shore A. 23°C)50ASTM D792EastomersNormial ValueUnitTest MethodTensile Elongation ² (Break)800%1ASTM D1238Insels Elongation ² (Break)800%1ASTM D122Indet100-100"CTest MethodMiddle Temperature100-120"CTest MethodMiddle Temperature100-120"	Features	Highlight		
Usesovermolding Soft handle ToysAgency RatingsEC 1907/2006 (REACH)RoHS ComplianceROHS complianceAppearanceClear/transparentProcessing MethodInjection moldingPhysicalNormial ValueUnitSpecific Gravity0.918g/cm ³ Methas-Flow Rate (MFR) (200°C/0.235 Kg)30g/10 minAstronomical Mass-Flow Rate (MFR) (200°C/0.235 Kg)30g/10 minBradressNorminal ValueUnitDurometer Hardness (Shore A. 23°C)50STM D228ElastomersNorminal ValueUnitTest MethodSoft MarcialFinsile Elongation ² (Break)800MPaAstronomical Test MethodSoft MarcialIndication 1100Soft MarcialIndication 2100-100"CFinding Temperature100-120"CMidid Temperature100-120"CMedi Temperature300-60.0"CInjection RateSlow		Sprayable		
Soft handle ToysAgency RatingsEC 1907/2006 (REACH)RoHS ComplianceRoHS complianceAppearanceIcear/transparentProcessing MethodInjection moldingPhysicalNominal ValueUnitSpedific Gravity0.918g/cm³ASTM D722g/cm³ASTM D722Kej)30g/10 minASTM D723HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore A, 23°C)50XTM D72240ElastomeraNominal ValueUnitTest MethodTensile Strength ¹ (Break)800%0ASTM D412Rear Femperature120-140°CXTM D412Rear Temperature130-150°CXTM D412Middle Temperature130-150°CXTM D412Middle Temperature100-120°CXTM D412Middle Temperature100-120°CXTM D412Front Strength Temp100-120°CYTM D412Front Strength Temp100-120°CYTM D412Middle Temperature100-120°CYTM		Halogen-free		
Soft handle ToysAgency RatingsEC 1907/2006 (REACH)RoHS ComplianceRoHS complianceAppearanceIcear/transparentProcessing MethodInjection moldingPhysicalNominal ValueUnitSpedific Gravity0.918g/cm³ASTM D722g/cm³ASTM D722Kej)30g/10 minASTM D723HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore A, 23°C)50XTM D72240ElastomeraNominal ValueUnitTest MethodTensile Strength ¹ (Break)800%0ASTM D412Rear Femperature120-140°CXTM D412Rear Temperature130-150°CXTM D412Middle Temperature130-150°CXTM D412Middle Temperature100-120°CXTM D412Middle Temperature100-120°CXTM D412Front Strength Temp100-120°CYTM D412Front Strength Temp100-120°CYTM D412Middle Temperature100-120°CYTM				
ToysAgency RatingsEC 1907/2006 (REACH)RoHS complianceRoHS complianceAppearaceClear/transparentProcessing MethodInjection moldingPhysicalNominal ValueUnitSpecific Gravity0,918g/cm³Methass-Flow Rate (MFR) (200°C/0235 Sg)30g/10 minArthonesNominal ValueUnitBurdersNominal ValueUnitDurometr Hardness (Shore A.23°C)50ASTM D1238ElastomerNominal ValueUnitTessile Elongation ² (Break)80MaASTM D220%ASTM D2240Insel Elongation ² (Break)800%Aginal ValueUnitTest MethodTensile Elongation ² (Break)80.0%Alota CCCMiddle Temperature130.150°CMiddle Temperature100.120°CFrocessing (Melly Temp100.120°CMiddle Temperature80.0°CMiddle Temperature100.120°CMiddle Temperature100.120°CMiddle Temperature80.0°CMiddle Temperature80.0°CMiddle Temperature100.120°CMiddle Temperature80.0°CMiddle Temperature80.0°CMiddle Temperature80.0°CMiddle Temperature80.0°CMiddle Temperature80.0°CMiddle Temperature80.0°CMiddle	Uses	overmolding		
Agency RatingsEC 1907/2006 (REACH)RoHS ComplianceRoHS complianceAppearanceClear/transparentProcessing MethodInjection moldingPhysicalNominal ValueUnitSpecific Gravity0.918g/cm³Melt Mass-Flow Rat (MFR) (200°C/032) Kg)30g/10 minAstm D1238g/10 minASTM D1238HardnessNominal ValueUnitDurometer Hardness (Shore A, 23°C)50ASTM D2240ElastomersNominal ValueUnitTensile Elongation 2 (Break)800% PaAstm D123%ASTM D212InjectionNominal ValueUnitTensile Elongation 2 (Break)800% CaKear Temperature120-140"CInjection130-150"CMiddle Temperature130-150"CFront Temperature100-120"CFrocessing (Melt) Temp100-120"CMoid Temperature300-60.0"CFrocessing Methol Temperature100-60.0"CFrocessing Methol Temperature100-60.0"CMoid Temperature500-60.0"CMoid Temperature500-60.0"CMoid Temperature500-60.0"CMoid Temperature500-60.0"CMoid Temperature500-60.0"CMoid Temperature500-60.0"CMoid Temperature500-60.0"CMoid Temperature500-60.0"CMoid Temperature500-60.0 <t< td=""><td></td><td>Soft handle</td><td></td><td></td></t<>		Soft handle		
RoHS complianceAppearanceClear/transparentProcessing MethodInjection moldingPhysicalNominal ValueUnitSpecific Gravity0.918g/cm³Mett Mass-Flow Rate (MFR) (200°C/0.325 kg)30g/10 minMett Mass-Flow Rate (MFR) (200°C/0.325 kg)Nominal ValueUnitDurometer Hardness (Shore A. 23°C)50ASTM D1238ElastomersNominal ValueUnitTest MethodTensile Strengh ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412Injection120-140°CTest MethodMiddl Temperature130-150°CTest MethodProcessing (Melt) Temp100-120°CTest MethodInjection RateSlow*CTest Method		Toys		
RoHS complianceAppearanceClear/transparentProcessing MethodInjection moldingPhysicalNominal ValueUnitSpecific Gravity0.918g/cm³Mett Mass-Flow Rate (MFR) (200°C/0.325 kg)30g/10 minMett Mass-Flow Rate (MFR) (200°C/0.325 kg)Nominal ValueUnitDurometer Hardness (Shore A. 23°C)50ASTM D1238ElastomersNominal ValueUnitTest MethodTensile Strengh ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412Injection120-140°CTest MethodMiddl Temperature130-150°CTest MethodProcessing (Melt) Temp100-120°CTest MethodInjection RateSlow*CTest Method				
AppearanceClear/transparentProcessing MethodInjection moldingPhysicalNominal ValueUnitTest MethodSpecific Gravity0.918g/cm³ASTM D792Melt Mass-Flow Rate (MFR) (200°C/0325 kg)30g/10 minASTM D1238HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore A, 23°C)50ASTM D2240ElastomersNominal ValueUnitTest MethodTensile Strength ¹ (Break)800%1ASTM D412InjectionNominal ValueUnitTest MethodRear Temperature120 - 140°CCMiddle Temperature130 - 150°CCFront Temperature140 - 160°CCProcessing (Melt) Temp100 - 120°CCMold Temperature300 - 60.0°CCInjection RateSlow°CC	Agency Ratings	EC 1907/2006 (REACH)		
Processing MethodInjection moldingPhysicalNominal ValueUnitTest MethodSpecific Gravity0.918g/cm³ASTM D792Melt Mass-Flow Rate (MFR) (200°C/0.325 kg)30g/10 minASTM D1238HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore A, 23°C)50ASTM D2240ElastomersNominal ValueUnitTest MethodElastomersNominal ValueUnitTest MethodTensile Elongation ² (Break)800%0ASTM D412InjectionNominal ValueUnitTest MethodRear Temperature120 - 140°CCMiddle Temperature130 - 150°CCFront Temperature140 - 160°CCProcessing (Melt) Temp100 - 120°CCMold Temperature30.0 - 60.0°CCInjection RateSlow°CC	RoHS Compliance	RoHS compliance		
PhysicalNominal ValueUnitTest MethodSpecific Gravity0.918g/cm³ASTM D792Melt Mass-Flow Rate (MFR) (200°C/0.325 kg)30g/10 minASTM D1238HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore A, 23°C)50ASTM D2240ElastomersNominal ValueUnitTest MethodElastomersNominal ValueUnitTest MethodTensile Strength ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412InjectionNominal ValueUnitTest MethodInjectionNominal ValueUnitTest MethodRear Temperature120 - 140°CCMiddle Temperature130 - 150°CTest MethodProcessing (Melt) Temp100 - 120°CCMold Temperature30.0 - 60.0°CTest MethodInjection RateSlow*CTest Method	Appearance	Clear/transparent		
Specific Gravity0.918g/cm³ASTM D792Melt Mass-Flow Rate (MFR) (200°C/0.325 kg)30g/10 minASTM D1238HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore A, 23°C)50ASTM D2240ElastomersNominal ValueUnitTest MethodTensile Strength ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412InjectionNominal ValueUnitTest MethodRear Temperature120 - 140°CCFront Temperature130 - 150°CCProcessing (Melt) Temp100 - 120°CCMold Temperature30.0 - 60.0°CCInjection RateSlow°CC	Processing Method	Injection molding		
Melt Mass-Flow Rate (MFR) (200°C/0.325 kg)30g/10 minASTM D1238HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore A, 23°C)50ASTM D2240ElastomersNominal ValueUnitTest MethodTensile Strength ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412InjectionNominal ValueUnitTest MethodRear Temperature120 - 140°CTest MethodMiddle Temperature130 - 150°CTest MethodProcessing (Melt) Temp100 - 120°CTest MethodMold Temperature30.0 - 60.0°CTest MethodInjection RateSlow*CTest Method	Physical	Nominal Value	Unit	Test Method
kg)30g/10 minASTM D1238HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore A, 23°C)50Test MethodElastomersNominal ValueUnitTest MethodTensile Strength ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412InjectionNominal ValueUnitTest MethodRear Temperature120 - 140°CTest MethodMiddle Temperature130 - 150°CTest MethodProcessing (Melt) Temp100 - 120°CTest MethodMold Temperature30.0 - 60.0°CTest MethodNord TemperatureSlow*CTest Method	Specific Gravity	0.918	g/cm³	ASTM D792
HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore A, 23°C)50ASTM D2240ElastomersNominal ValueUnitTest MethodTensile Strength ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412InjectionNominal ValueUnitTest MethodRear Temperature120 - 140°CCMiddle Temperature130 - 150°CCFront Temperature140 - 160°CCProcessing (Melt) Temp100 - 120°CCMold Temperature30.0 - 60.0°CCInjection RateSlowSlowSlow				
Durometer Hardness (Shore A, 23°C)50ASTM D2240ElastomersNominal ValueUnitTest MethodTensile Strength ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412InjectionNominal ValueUnitCRear Temperature120 - 140°CCMiddle Temperature130 - 150°CCFront Temperature140 - 160°CCProcessing (Melt) Temp100 - 120°CCMold Temperature3.0.0 - 60.0°CCInjection RateSlowCC	kg)	30	g/10 min	ASTM D1238
ElastomersNominal ValueUnitTest MethodTensile Strength ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412InjectionNominal ValueUnitCRear Temperature120 - 140°CCMiddle Temperature130 - 150°CCFront Temperature140 - 160°CCProcessing (Melt) Temp100 - 120°CCMold Temperature30.0 - 60.0°CCInjection RateSlowCC	Hardness	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)4.20MPaASTM D412Tensile Elongation ² (Break)800%ASTM D412InjectionNominal ValueUnitRear Temperature120 - 140°CMiddle Temperature130 - 150°CFront Temperature140 - 160°CProcessing (Melt) Temp100 - 120°CMold Temperature30.0 - 60.0°CInjection RateSlow	Durometer Hardness (Shore A, 23°C)	50		ASTM D2240
Tensile Elongation 2 (Break)800%ASTM D412InjectionNominal ValueUnitRear Temperature120 - 140°C-Middle Temperature130 - 150°C-Front Temperature140 - 160°C-Processing (Melt) Temp100 - 120°C-Mold Temperature30.0 - 60.0°C-Injection RateSlow	Elastomers	Nominal Value	Unit	Test Method
InjectionNominal ValueUnitRear Temperature120 - 140°CMiddle Temperature130 - 150°CFront Temperature140 - 160°CProcessing (Melt) Temp100 - 120°CMold Temperature30.0 - 60.0°CInjection RateSlow	Tensile Strength ¹ (Break)	4.20	MPa	ASTM D412
Rear Temperature120 - 140°CMiddle Temperature130 - 150°CFront Temperature140 - 160°CProcessing (Melt) Temp100 - 120°CMold Temperature30.0 - 60.0°CInjection RateSlow	Tensile Elongation ² (Break)	800	%	ASTM D412
Middle Temperature130 - 150°CFront Temperature140 - 160°CProcessing (Melt) Temp100 - 120°CMold Temperature30.0 - 60.0°CInjection RateSlow	Injection	Nominal Value	Unit	
Front Temperature140 - 160°CProcessing (Melt) Temp100 - 120°CMold Temperature30.0 - 60.0°CInjection RateSlow	Rear Temperature	120 - 140	°C	
Processing (Melt) Temp100 - 120°CMold Temperature30.0 - 60.0°CInjection RateSlow	Middle Temperature	130 - 150	°C	
Mold Temperature 30.0 - 60.0 °C Injection Rate Slow	Front Temperature	140 - 160	°C	
Injection Rate Slow	Processing (Melt) Temp	100 - 120	°C	
	Mold Temperature	30.0 - 60.0	°C	
	Injection Rate	Slow		
Injection instructions	Injection instructions			

Processing Temperature Limit: 220°CInjection Pressure: LowBack Pressure: 20 to 50%Overmolding Parameters:Rear Temperature: 140 to 160°CCenter Temperature: 150 to 170°CFront Temperature: 160 to 180°CMelt Temperature: 100 to 120°CMold Temperature: 30 to 60°CProcessing Temperature Limit: 220°CInjection Pressure: LowInjection Speed: LowBack Pressure: 20 to 50%

NOTE	
1.	500 mm/min
2.	500 mm/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

