Moplen HP555G

Polypropylene Homopolymer

LyondellBasell Industries

Message:

LyondellBasell Australia's Polypropylene grade HP555G is a low flow homopolymer with a conventional molecular weight distribution and is formulated with an enhanced process stability additive package. HP555G is designed for extrusion processes that demand high melt strength and melt stability characteristics. End use products typically made from HP555G include strapping, mechanically fibrillated yarns and profiles.

Features Food Cortex Acceptable Good Mett Strength Good Processing Stability High Mett Stability High Mett Stability High Mett Stability Homopolymer Low Flow Profiles Processing Method Profiles Processing Method Extrusion Processing Method Strapping Profiles Nominal Value Profiles Init Profiles Strapping Profiles Strapping Profiles Nominal Value Profiles Init Profiles Strapping Profiles Strapping Profiles Strapping Profiles Strapping Profiles Nominal Value Density 0900 gr(m² Nominal Value Unit Test Method Shore Hardness (Shore D) 73 Sto Sta Profiles Inspact Nominal Value Wal Sto Sto Sto Profiles Inspact Nominal Value Wal Sto Sto Profiles Inspact Nominal Value Vint Test Method	General Information			
Good Meit Strength Good Processing Stability High Meit Stability High Meit Stability High Meit Stability Homopolymer Low Flow Homopolymer Low Flow Profiles Profiles Reinforced Panels Strapping Strapping Ver Normal Value Professing Method Normal Value Density 0.900 Mentandense (MFR) (20°C/2::67) Janan Methands Normal Value Methands Normal Value Methands Normal Value Methanda Normal Value Insets Strokely 3.01 Methanda Normal Value Moninal Value Nalue Normal Value Normal Value	Additive	Processing Aid		
Good Processing Stability High Melt Stability High Melt Stability Homopolymer Low Flow Uses Profiles Reinforced Panels Strapping Yarn Processing Method Nermina Value Physical Nominal Value Density 0.900 0.900 g/dmina Methandsen Kuff Rf20°C/2.16° 1.3 Starse Hornsets (Shore Dim 1.3 Nominal Value Unit Methandset (MER) (230°C/2.16° 1.3 Shore Hardness (Shore Dim 1.3 Nominal Value Unit Ternsle Strass (Yield) 3.0 Nominal Value Unit Ternsle Strass (Yield) 3.0 Notact Alzon Marce Notact Alzon Marce Notact Alzon Nominal Value Notact Alzon Marce Notact Alzon Marce Notact Alzon Nominal Value Notact Izon Minal Value Init Notact Izon Minal Value Nominal Value Notact Izon	Features	Food Contact Acceptable		
High Melt Stability Homopolymer Low FlowUsesProfiles Reinforced Panels Strapping YamProcessing MethodFotusionProcessing MethodKetusionPhysicalNominal ValueDensity0.9000.900g/cm ² MethodIso 1133MethodIso 1133MethodIso 1133MethodIso 1133MethodIso 1133MethodIso 1133MethodIso 1133MethodIso 1133MethodIso 1133Store HardnessNominal ValueNominal ValueUnitMethodIso 680Tensie Stress (Yield)3.0Iso 3.0MPaIso 1232Iso 1232ItomatNominal ValueItomatIso 127-2ItomatNominal ValueItomatSo 527-2ItomatSo 127-2ItomatIso 1282ItomatIso		Good Melt Strength		
Homopolymer Low Flow Profiles Reinforced Panels Staroping Yara Staroping Yara Varian Processing Method Extrusion Projeces Nominal Value Unit Density 0900 g/cm³ Density 0900 g/cm³ Marcines Nominal Value Unit Method Storaping ISO 1133 Marcines Nominal Value Unit Test Method Nominal Value Unit Test Method Storaping Nominal Value Marcines Storaping Storaping Nominal Value Init Storaping Storaping Nominal Value Marcines Storaping Storaping Nominal Value Init Storaping Storaping Notiched Izod Impact Strength (23*C) 6.0 Marcines Storaping <td< td=""><td></td><td>Good Processing Stability</td><td></td><td></td></td<>		Good Processing Stability		
Low Flow Use Profeses Profeses Strapping Yam Processing Method Extrusion Ext		High Melt Stability		
Uses Profiles Reinforced Panels Strapping Yarn Processing Method Extrusion Processing Method Extrusion Physical Nominal Value Unit Test Method Density 0.900 g/cm³ 50 118./0 Melt Mass-Flow Rate (MFR) (230°C/2.16) j g/10 min S0 1133 Melt Mass-Flow Rate (MFR) (230°C/2.16) Nominal Value Unit Test Method Net Mass-Flow Rate (MFR) (230°C/2.16) Nominal Value Joint Part ISO 188./0 Mechanical Nominal Value Unit Test Method Iso Res Nominal Value Unit So 527-2 Iso Res Ja00 MPa ISO 183./ Impact Nominal Value Unit Test Method Internal Nominal Value Unit Test Method Notice Lize Information Temperature Unit Test Method Impact Nominal Value Unit Test Method Notice Lize Information Temperature Unit Test Method Impact Nominal Value Unit		Homopolymer		
Reinforced Panels Strapping YarnProcessing MethodExtusionProcessing MethodExtusionProjecalNominal ValueUnitDensity0.900g.cm ³ Density0.900g.cm ³ MethodJol 1183/DMarcinessNominal ValueUnitMethodJol 1133MarcinessNominal ValueUnitNominal ValueUnitTest MethodShore Hardness (Shore D)3UnitTest MethodTensile Stress (Yield)3.0MPaISo 1232-C2Tensile Stress (Yield)3.0MPaISo 1272-C2Tensile Stress (Yield)3.0MPaISo 1272-C2InpactNominal ValueUnitTest MethodInpactNominal ValueMPaISo 1272-C2InpactNominal ValueMPaISo 1272-C2InpactNominal ValueMPaISo 1272-C2InpactNominal ValueMPaISo 1272-C2InpactNominal ValueMPaISo 1202-C2InpactNominal ValueMPaISo 1202-C2InpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest Metho		Low Flow		
Reinforced Panels Strapping YarnProcessing MethodExtusionProcessing MethodExtusionProjecalNominal ValueUnitDensity0.900g.cm ³ Density0.900g.cm ³ MethodJol 1183/DMarcinessNominal ValueUnitMethodJol 1133MarcinessNominal ValueUnitNominal ValueUnitTest MethodShore Hardness (Shore D)3UnitTest MethodTensile Stress (Yield)3.0MPaISo 1232-C2Tensile Stress (Yield)3.0MPaISo 1272-C2Tensile Stress (Yield)3.0MPaISo 1272-C2InpactNominal ValueUnitTest MethodInpactNominal ValueMPaISo 1272-C2InpactNominal ValueMPaISo 1272-C2InpactNominal ValueMPaISo 1272-C2InpactNominal ValueMPaISo 1272-C2InpactNominal ValueMPaISo 1202-C2InpactNominal ValueMPaISo 1202-C2InpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest MethodInpactNominal ValueMinitTest Metho				
Stapping YamProcessing MethodktrusionProcessing MethodKtrusionProjecalNominal ValueDensity0.900Oponagorn ³ Density1.3Mominal ValueJon Minial ValueMethodJon Minial ValueMethodJon Minial ValueMarchessNominal ValueMominal ValueUnitinMechanicalNominal ValueMechanicalNominal ValueMechanicalNominal ValueMethodulusIon JanoInspaceJon Minial ValueMethodulusIon Minial ValueMethodulusIon Minial ValueMethodulusIon Minial ValueMethodulusIon Minial ValueMominal ValueMarial CalueMethodulusIon Minial ValueMethodulusIon Minial ValueMethodulus <td< td=""><td>Uses</td><td>Profiles</td><td></td><td></td></td<>	Uses	Profiles		
YanProcessing MethodExtusionPhysicalNominal ValueUnitDensity0.900g/cm ³ Density0.900g/cm ³ Meth Mass-Flow Rate (MFR) (230°C/2.16 kg)1.3g/10 minKg)1.3g/10 minISO 1133HardnessNominal ValueUnitTest MethodShore Hardness (Shore D)73ISO 586MechanicalNominal ValueUnitTest MethodInspile Stress (Yield)33.0MPaISO 178InspactNominal ValueUnitTest MethodInspactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0K/m²ISO 180/1ANotched Izod Impact Strength (23°C)6.0kl/m²ISO 180/1AHertardNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0kl/m²ISO 180/1AHertardStrength (23°C)6.0kl/m²ISO 180/1AHertardNominal ValueUnitTest MethodHertardStrength (23°C)6.0Kl/m²ISO 180/1ANominal ValueUnitTest MethodISO 180/1AHertardStrength (23°C)6.0Kl/m²ISO 180/1AHertardStrength (23°C)6.0Kl/m²ISO 180/1AHertardStrength (23°C)6.0Kl/m²ISO 180/1AHertardStrength (23°C)6.0Strength (23°C)ISO 180/1AHertardStrength (23°C)5.0		Reinforced Panels		
Processing MethodExtrusionPhysicalNominal ValueUnitTest MethodDensity0.900g/cm³ISO 1183/DMeth Mass-Flow Rate (MFR) (230°C/2.16 kg)1.3g/10 minISO 1133HardnessNominal ValueUnitTest MethodShore Hardness (Shore D)73ISO 868MechanicalNominal ValueUnitTest MethodTensile Stress (Yield)33.0MPaISO 527-2InpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0M/PaISO 180/TANotched Izod Impact Strength (23°C)6.0kl/m²ISO 180/TAHext Deflection TemperatureUnitTest Method0.45 MPa, Unannealed82.0°CISO 75-2/A1.8 MPa, Unannealed51.0°CISO 75-2/A		Strapping		
PhysicalNominal ValueUnitTest MethodDensity0.900g/cm³ISO 1183/DMelt Mass-Flow Rate (MFR) (230°C/2.16 kg)I.3g/10 minISO 1133HardnessNominal ValueUnitTest MethodShore Hardness (Shore D)73ISO 868MechanicalNominal ValueUnitTest MethodTensile Stress (Yield)33.0MPaISO 527-2Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0k//m²ISO 180/1AThermalNominal ValueUnitTest MethodHeat Deflection Temperature82.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A		Yarn		
PhysicalNominal ValueUnitTest MethodDensity0.900g/cm³ISO 1183/DMelt Mass-Flow Rate (MFR) (230°C/2.16 kg)I.3g/10 minISO 1133HardnessNominal ValueUnitTest MethodShore Hardness (Shore D)73ISO 868MechanicalNominal ValueUnitTest MethodTensile Stress (Yield)33.0MPaISO 527-2Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0k//m²ISO 180/1AThermalNominal ValueUnitTest MethodHeat Deflection Temperature82.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A				
Density0.900g/cm³ISO 1183/DMelt Mass-Flow Rate (MFR) (230°C/2.16 kg)1.3g/10 minISO 1133HardnessNominal ValueUnitTest MethodShore Hardness (Shore D)73ISO 868MechanicalNominal ValueUnitTest MethodTensile Stress (Yield)33.0MPaISO 178Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0kJ/m²ISO 180/1AHeart Deflection TemperatureUnitTest Method0.45 MPa, Unannealed82.0°CISO 75-2/A	Processing Method	Extrusion		
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)1.3g/10 minISO 1133HardnessNominal ValueUnitTest MethodShore Hardness (Shore D)73ISO 868MechanicalNominal ValueUnitTest MethodTensile Stress (Yield)33.0MPaISO 1527-2ItematNominal ValueUnitTest MethodImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0KJ/m²ISO 180/1AThermalNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0KJ/m²ISO 180/1ANominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)8.20°CISO 75-2/BMethodStore Strength82.0°CISO 75-2/BNamealed51.0°CISO 75-2/A	Physical	Nominal Value	Unit	Test Method
kg)1.3g/10 minISO 1133HardnessNominal ValueUnitTest MethodShore Hardness (Shore D)73ISO 868MechanicalNominal ValueUnitTest MethodTensile Stress (Yield)3.0MPaISO 527-2Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0Kl/m²ISO 180/1AHermalNominal ValueUnitTest MethodHeat Deflection Temperature2.0°CISO 75-2/B0.45 MPa, Unannealed51.0°CISO 75-2/A	Density	0.900	g/cm³	ISO 1183/D
HardnessNominal ValueUnitTest MethodShore Hardness (Shore D)73ISO 868MechanicalNominal ValueUnitTest MethodTensile Stress (Yield)33.0MPaISO 527-2Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0kJ/m²ISO 180/1AThermalNominal ValueUnitTest MethodHeat Deflection Temperature2.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A	Melt Mass-Flow Rate (MFR) (230°C/2.16			
Shore Hardness (Shore D)73ISO 868MechanicalNominal ValueUnitTest MethodTensile Stress (Yield)33.0MPaISO 527-2Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0kl/m²ISO 180/1AThermalNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0kl/m²ISO 180/1AThermalSo 180/1ASo 180/1ASo 180/1AHeat Deflection TemperatureSo 20°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A			-	
MechanicalNominal ValueUnitTest MethodTensile Stress (Yield)33.0MPaISO 527-2Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0kJ/m²ISO 180/1AThermalNominal ValueUnitTest MethodHeat Deflection TemperatureS2.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A			Unit	
Tensile Stress (Yield)33.0MPaISO 527-2Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0kJ/m²ISO 180/1AThermalNominal ValueUnitTest MethodHeat Deflection TemperatureS2.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A				
Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0kJ/m²ISO 180/1AThermalNominal ValueUnitTest MethodHeat Deflection TemperatureS2.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A	Mechanical	Nominal Value	Unit	Test Method
ImpactNominal ValueUnitTest MethodNotched Izod Impact Strength (23°C)6.0kJ/m²ISO 180/1AThermalNominal ValueUnitTest MethodHeat Deflection TemperatureS2.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A	Tensile Stress (Yield)	33.0	MPa	ISO 527-2
Notched Izod Impact Strength (23°C)6.0kJ/m²ISO 180/1AThermalNominal ValueUnitTest MethodHeat Deflection Temperature0.45 MPa, Unannealed82.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A	Flexural Modulus	1400	MPa	ISO 178
ThermalNominal ValueUnitTest MethodHeat Deflection Temperature0.45 MPa, Unannealed82.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A	Impact	Nominal Value	Unit	Test Method
Heat Deflection Temperature0.45 MPa, Unannealed82.0°CISO 75-2/B1.8 MPa, Unannealed51.0°CISO 75-2/A	Notched Izod Impact Strength (23°C)	6.0	kJ/m²	ISO 180/1A
0.45 MPa, Unannealed 82.0 °C ISO 75-2/B 1.8 MPa, Unannealed 51.0 °C ISO 75-2/A	Thermal	Nominal Value	Unit	Test Method
1.8 MPa, Unannealed 51.0 °C ISO 75-2/A	Heat Deflection Temperature			
	0.45 MPa, Unannealed	82.0	°C	ISO 75-2/B
Vicat Softening Temperature 15 °C ISO 306/A	1.8 MPa, Unannealed	51.0	°C	ISO 75-2/A
	Vicat Softening Temperature	155	°C	ISO 306/A

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

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

