# Moplen HP554M

## Polypropylene Homopolymer LyondellBasell Industries

#### Message:

General Information

Moplen HP554M is suitable for extrusion applications. It is formulated with an anti-gasfading stabilisation package. Moplen HP554M is designed for the production of fine denier staple fibres. Typical application is thermal-bonded nonwovens. For regulatory information please refer to Moplen HP554M Product Stewardship Bulletin (PSB).

Features   Gas-fading Resistant   Homopolymer    Wesser   Nonrovoens   Staple Fibers    Processing Method   Extrusion   Fiber (Spinning) Extrusion    Physical   Nominal Value   Unit   Test Method    Melt Mass-Flow Rate (MFR) (230°C/2.16*   Test Method    Tensile Stress   John MPa	Additive	Anti-gas fading		
	Features	Gas-fading Resistant		
Processing Method  Extrusion Fiber (Spinning) Extrusion  Physical  Nominal Value  Unit  Test Method  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  12 g/10 min  ISO 1133  Mechanical  Nominal Value  Unit  Test Method  Test Method  Test Method  Test Method  MPa  Testile Stress  1SO 527-2  Yield  34.0  MPa  Tensile Strain  22.0  MPa  Tensile Strain  11 %  Tensile Strain  150 527-2  Yield  11 %  Flexural Modulus  110  WPa  Flexural Modulus  1400  MPa  Stonak  Ponek  Impact  Nominal Value  Unit  Test Method  Test Method  Test Method  Test Method  MPa  Ston 178  Impact  Nominal Value  Unit  Test Method  Test Defiction Temperature (0.45 MPa, bno)  Thermal  Nominal Value  Unit  Test Method  Test Method  Test Method  Test Method  Test Method  Test Defiction Temperature (0.45 MPa, bno)  Thermal  Nominal Value  Unit  Test Method  Test Metho		Homopolymer		
Processing Method  Extrusion Fiber (Spinning) Extrusion  Physical  Nominal Value  Unit  Test Method  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  12 g/10 min  ISO 1133  Mechanical  Nominal Value  Unit  Test Method  Test Method  Test Method  Test Method  MPa  Testile Stress  1SO 527-2  Yield  34.0  MPa  Tensile Strain  22.0  MPa  Tensile Strain  11 %  Tensile Strain  150 527-2  Yield  11 %  Flexural Modulus  110  WPa  Flexural Modulus  1400  MPa  Stonak  Ponek  Impact  Nominal Value  Unit  Test Method  Test Method  Test Method  Test Method  MPa  Ston 178  Impact  Nominal Value  Unit  Test Method  Test Defiction Temperature (0.45 MPa, bno)  Thermal  Nominal Value  Unit  Test Method  Test Method  Test Method  Test Method  Test Method  Test Defiction Temperature (0.45 MPa, bno)  Thermal  Nominal Value  Unit  Test Method  Test Metho				
Processing Method  Fiber (Spinning) Extrusion  Fiber (Spinning) Extrusion  Physical  Meth Mass-Flow Rate (MFR) (230°C/2.16' kg)  Meth Mass-Flow Rate (MFR) (230°C/2.16' kg)  Mechanical  Mechanical  Nominal Value  Unit  Test Method  Tensile Stress  150 527-2  Yield  34.0  MPa  Break  22.0  MPa  Tensile Strain  12  Wold  11  Wold  Break  > 500  WPa  Tensile Strain  1400  MPa  Break  > 500  WPa  Flexural Modulus  1400  MPa  Broak  Impact  Nominal Value  Unit  Test Method  Tensile Strain  150 178  Impact  Nominal Value  Unit  Test Method  MPa  ISO 178  Impact  Charpy Notched Impact Strength  7.0  Wylm²  Charpy Notched Impact Strength  190  Wylm²  Tensile Strain  Test Method  Heat Deflection Temperature (0.45 MPa, bylm²  Unannealed)  Polo "C  ISO 75-2/B  Vicat Softening Temperature   153 "C  ISO 306/A50	Uses	Nonwovens		
Fiber (Spinning) Extrusion   Fiber (Spinnin		Staple Fibers		
Fiber (Spinning) Extrusion   Fiber (Spinnin				
Physical         Nominal Value         Unit         Test Method           Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         12         g/10 min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Stress         ISO 527-2         Yield         34.0         MPa           Break         22.0         MPa         ISO 527-2           Yield         11         %         ISO 527-2           Yield         11         %         ISO 527-2           Yield         140         MPa         ISO 178           Break         > 500         %         ISO 178           Impact         Nominal Value         Unit         Test Method           Charpy Notched Impact Strength         7.0         KJ/m²         ISO 179           Charpy Unnotched Impact Strength         190         KJ/m²         ISO 179           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature (0.45 MPa, Unannealed)         90.0         "C         ISO 75-2/B           Vicat Softening Temperature         153         "C         ISO 306/A50	Processing Method	Extrusion		
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         12         g/10 min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Stress         JSO 527-2         ISO 527-2           Yield         34.0         MPa         ————————————————————————————————————		Fiber (Spinning) Extrusion		
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         12         g/10 min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Stress         JSO 527-2         ISO 527-2           Yield         34.0         MPa         ————————————————————————————————————				
kg)         12         g/10 min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Stress         34.0         MPa         Formal           Break         22.0         MPa         Formal           Tensile Strain         11         %         Formal           Break         > 500         %         Formal           Flexural Modulus         1400         MPa         ISO 178           Impact         Nominal Value         Unit         Test Method           Charpy Notched Impact Strength         7.0         kJ/m²         ISO 179           Charpy Unnotched Impact Strength         190         kJ/m²         ISO 179           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature (0.45 MPa, Unannealed)         90.0         °C         ISO 75-2/B           Vicat Softening Temperature         153         °C         ISO 306/A50	Physical	Nominal Value	Unit	Test Method
Mechanical         Nominal Value         Unit         Test Method           Tensile Stress         150 527-2         150 527-2           Yield         34.0         MPa           Break         22.0         MPa           Tensile Strain         11         %           Break         > 500         %           Flexural Modulus         1400         MPa         150 178           Impact         Nominal Value         Unit         Test Method           Charpy Notched Impact Strength         7.0         kJ/m²         150 179           Charpy Unnotched Impact Strength         190         kJ/m²         150 179           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature (0.45 MPa, Unannealed)         90.0         °C         150 75-2/B           Vicat Softening Temperature         153         °C         150 306/A50		42	40.	100 1122
Tensile Stress         ISO 527-2           Yield         34.0         MPa           Break         22.0         MPa           Tensile Strain         ISO 527-2           Yield         11         %           Break         > 500         %           Flexural Modulus         1400         MPa         ISO 178           Impact         Nominal Value         Unit         Test Method           Charpy Notched Impact Strength         7.0         kJ/m²         ISO 179           Charpy Unnotched Impact Strength         190         kJ/m²         ISO 179           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature (0.45 MPa, Unannealed)         90.0         °C         ISO 75-2/B           Vicat Softening Temperature         153         °C         ISO 306/A50				
Yield         34.0         MPa           Break         22.0         MPa           Tensile Strain         ISO 527-2           Yield         11         %           Break         > 500         %           Flexural Modulus         1400         MPa         ISO 178           Impact         Nominal Value         Unit         Test Method           Charpy Notched Impact Strength         7.0         kJ/m²         ISO 179           Charpy Unnotched Impact Strength         190         kJ/m²         ISO 179           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature (0.45 MPa, Unannealed)         90.0         °C         ISO 75-2/B           Vicat Softening Temperature         153         °C         ISO 306/A50	Mechanical	Nominal Value	Unit	Test Method
Break         22.0         MPa           Tensile Strain         ISO 527-2           Yield         11         %           Break         > 500         %           Flexural Modulus         1400         MPa         ISO 178           Impact         Nominal Value         Unit         Test Method           Charpy Notched Impact Strength         7.0         kJ/m²         ISO 179           Charpy Unnotched Impact Strength         190         kJ/m²         ISO 179           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature (0.45 MPa, Unannealed)         90.0         °C         ISO 75-2/B           Vicat Softening Temperature         153         °C         ISO 306/A50	Tensile Stress			ISO 527-2
Tensile Strain  Yield  11  8c  Break  > 500  MPa  IsO 178  Impact  Mominal Value  Unit  Test Method  Charpy Notched Impact Strength  7.0  Charpy Unnotched Impact Strength  190  Wimal Value  Unit  Test Method  IsO 179  Thermal  Nominal Value  Unit  Test Method  IsO 179  Thermal  Nominal Value  Unit  Test Method  IsO 179  Test Method	Yield	34.0	MPa	
Yield11%Break> 500%Flexural Modulus1400MPaISO 178ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength7.0kJ/m²ISO 179Charpy Unnotched Impact Strength190kJ/m²ISO 179ThermalNominal ValueUnitTest MethodHeat Deflection Temperature (0.45 MPa, Unannealed)90.0°CISO 75-2/BVicat Softening Temperature153°CISO 306/A50	Break	22.0	MPa	
Break > 500 %  Flexural Modulus 1400 MPa ISO 178  Impact Nominal Value Unit Test Method  Charpy Notched Impact Strength 7.0 kJ/m² ISO 179  Charpy Unnotched Impact Strength 190 kJ/m² ISO 179  Thermal Nominal Value Unit Test Method  Heat Deflection Temperature (0.45 MPa, Unannealed) 90.0 °C ISO 75-2/B  Vicat Softening Temperature  153 °C ISO 306/A50	Tensile Strain			ISO 527-2
Flexural Modulus 1400 MPa ISO 178  Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.0 kJ/m² ISO 179  Charpy Unnotched Impact Strength 190 kJ/m² ISO 179  Thermal Nominal Value Unit Test Method Heat Deflection Temperature (0.45 MPa, Unannealed) 90.0 °C ISO 75-2/B  Vicat Softening Temperature 153 °C ISO 306/A50	Yield	11	%	
ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength7.0kJ/m²ISO 179Charpy Unnotched Impact Strength190kJ/m²ISO 179ThermalNominal ValueUnitTest MethodHeat Deflection Temperature (0.45 MPa, Unannealed)90.0°CISO 75-2/BVicat Softening Temperature153°CISO 306/A50	Break	> 500	%	
Charpy Notched Impact Strength 7.0 kJ/m² ISO 179  Charpy Unnotched Impact Strength 190 kJ/m² ISO 179  Thermal Nominal Value Unit Test Method  Heat Deflection Temperature (0.45 MPa, Unannealed) 90.0 °C ISO 75-2/B  Vicat Softening Temperature  153 °C ISO 306/A50	Flexural Modulus	1400	MPa	ISO 178
Charpy Unnotched Impact Strength 190 kJ/m² ISO 179  Thermal Nominal Value Unit Test Method  Heat Deflection Temperature (0.45 MPa, Unannealed) 90.0 °C ISO 75-2/B  Vicat Softening Temperature  153 °C ISO 306/A50	Impact	Nominal Value	Unit	Test Method
Thermal Nominal Value Unit Test Method  Heat Deflection Temperature (0.45 MPa, Unannealed) 90.0 °C ISO 75-2/B  Vicat Softening Temperature 153 °C ISO 306/A50	Charpy Notched Impact Strength	7.0	kJ/m²	ISO 179
Heat Deflection Temperature (0.45 MPa, Unannealed) 90.0 °C ISO 75-2/B  Vicat Softening Temperature  153 °C ISO 306/A50	Charpy Unnotched Impact Strength	190	kJ/m²	ISO 179
Unannealed) 90.0 °C ISO 75-2/B  Vicat Softening Temperature 153 °C ISO 306/A50	Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature 153 °C ISO 306/A50				
153 °C ISO 306/A50	Unannealed)	90.0	°C	ISO 75-2/B
	Vicat Softening Temperature			
93.0 °C ISO 306/B50		153	°C	ISO 306/A50
		93.0	°C	ISO 306/B50

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