# Evolue<sup>™</sup>-H SP3505

#### High Density Polyethylene

Prime Polymer Co., Ltd.

#### Message:

Evolue<sup>™</sup>-H SP3505 is a High Density Polyethylene product. It can be processed by film extrusion and is available in Asia Pacific, Europe, or North America. Applications of Evolue<sup>™</sup>-H SP3505 include bags/liners, film and industrial applications.

Characteristics include:

**High Stiffness** 

Impact Resistant

Features  Bimodal Molecular Weight Distribution Good Melt Strength High Impact Resistance High Stiffness  Uses  Film Heavy-duty Bags Industrial Applications  Processing Method Film Extrusion  Physical Nominal Value Unit Test Method Density 0.936 g/cm³ ISO 1183  Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0.50 g/10 min ISO 1133 Environmental Stress-Cracking Resistance > 600 hr ASTM D1693  Hardness Nominal Value Unit Test Method Durometer Hardness (Shore D) 58 ASTM D2240, ISO 86 Mechanical Nominal Value Unit Test Method Tensile Modulus > 600 MPa ISO 527-2 Tensile Strein (Break) > 25 % ISO 179  Impact Nominal Value Unit Test Method Charpy Unnotched Impact Strength No Break ISO 179	General Information			
High Impact Resistance High Stiffness  Film Heavy-duty Bags Industrial Applications  Film Extrusion  Processing Method Film Extrusion  Physical Nominal Value Unit Test Method Density 0,936 g/cm³ ISO 1183  Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0,50 g/10 min ISO 1133  Environmental Stress-Cracking Resistance > 600 hr ASTM D1693  Hardness Nominal Value Unit Test Method Durometer Hardness (Shore D) 58 CO Winial Value Unit Test Method  Durometer Hardness (Shore D) 58 ASTM D2240, ISO 80  Mechanical Nominal Value Unit Test Method  Tensile Modulus > 600 MPa ISO 527-2  Tensile Stress (Yield) 17.0 MPa ISO 527-2  Tensile Strain (Break) > 25 % WPa ISO 527-2  Flexural Modulus 600 MPa ISO 527-2  Flexural Modulus 1001 MPa ISO 1786	Features	Bimodal Molecular Weight Distribution		
High Stiffness  Film Heavy-duty Bags Industrial Applications  Film Extrusion		Good Melt Strength		
Film		High Impact Resistance		
Heavy-duty Bags Industrial Applications  Processing Method Film Extrusion  Physical Nominal Value Unit Test Method Density 0.50 0.50 g/10 min ISO 1133  Environmental Stress-Cracking Resistance > 600 hr ASTM D1693 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore D) 58 ASTM D2240, ISO 80  Mechanical Nominal Value Unit Test Method Tensile Modulus > 600 MPa ISO 527-2  Tensile Stress (Yield) 17.0 MPa ISO 527-2  Flexural Modulus 600 MPa ISO 527-2		High Stiffness		
Processing Method Film Extrusion  Physical Nominal Value Unit Test Method  Density 0.936 g/cm³ ISO 1183  Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0.50 g/10 min ISO 1133  Environmental Stress-Cracking Resistance > 600 hr ASTM D1693  Hardness Nominal Value Unit Test Method  Durometer Hardness (Shore D) 58 ASTM D2240, ISO 80  Mechanical Nominal Value Unit Test Method  Tensile Modulus > 600 MPa ISO 527-2  Tensile Stress (Yield) 17.0 MPa ISO 527-2  Tensile Stress (Yield) 17.0 MPa ISO 527-2  Flexural Modulus 600 MPa ISO 527-2  Flexural Modulus 100 Nominal Value Unit Test Method ISO 527-2	Uses	Film		
Processing Method         Film Extrusion           Physical         Nominal Value         Unit         Test Method           Density         0.936         g/cm³         ISO 1183           Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)         0.50         g/10 min         ISO 1133           Environmental Stress-Cracking Resistance         > 600         hr         ASTM D1693           Hardness         Nominal Value         Unit         Test Method           Durometer Hardness (Shore D)         58         ASTM D2240, ISO 80           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus         > 600         MPa         ISO 527-2           Tensile Stress (Yield)         17.0         MPa         ISO 527-2           Tensile Strain (Break)         > 25         %         ISO 527-2           Flexural Modulus         Mominal Value         Unit         Test Method		Heavy-duty Bags		
Physical         Nominal Value         Unit         Test Method           Density         0.936         g/cm³         ISO 1183           Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)         50.50         g/10 min         ISO 1133           Environmental Stress-Cracking Resistance         > 600         hr         ASTM D1693           Hardness         Nominal Value         Unit         Test Method           Durometer Hardness (Shore D)         58         ASTM D2240, ISO 80           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus         > 600         MPa         ISO 527-2           Tensile Stress (Yield)         17.0         MPa         ISO 527-2           Flexural Modulus         > 25         %         ISO 527-2           Flexural Modulus         MPa         ISO 178           Impact         Nominal Value         Unit         Test Method				
Density         0.936         g/cm³         ISO 1183           Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)         0.50         g/10 min         ISO 1133           Environmental Stress-Cracking Resistance         > 600         hr         ASTM D1693           Hardness         Nominal Value         Unit         Test Method           Durometer Hardness (Shore D)         58         ASTM D2240, ISO 80           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus         > 600         MPa         ISO 527-2           Tensile Stress (Yield)         17.0         MPa         ISO 527-2           Flexural Modulus         600         MPa         ISO 527-2           Flexural Modulus         600         MPa         ISO 178           Impact         Nominal Value         Unit         Test Method	Processing Method	Film Extrusion		
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)         0.50         g/10 min         ISO 1133           Environmental Stress-Cracking Resistance         > 600         hr         ASTM D1693           Hardness         Nominal Value         Unit         Test Method           Durometer Hardness (Shore D)         58         ASTM D2240, ISO 80           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus         > 600         MPa         ISO 527-2           Tensile Strain (Break)         > 25         %         ISO 527-2           Flexural Modulus         600         MPa         ISO 178           Impact         Nominal Value         Unit         Test Method	Physical	Nominal Value	Unit	Test Method
kg)         0.50         g/10 min         ISO 1133           Environmental Stress-Cracking Resistance         > 600         hr         ASTM D1693           Hardness         Nominal Value         Unit         Test Method           Durometer Hardness (Shore D)         58         ASTM D2240, ISO 80           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus         > 600         MPa         ISO 527-2           Tensile Stress (Yield)         17.0         MPa         ISO 527-2           Tensile Strain (Break)         > 25         %         ISO 527-2           Flexural Modulus         600         MPa         ISO 178           Impact         Nominal Value         Unit         Test Method	Density	0.936	g/cm³	ISO 1183
HardnessNominal ValueUnitTest MethodDurometer Hardness (Shore D)58ASTM D2240, ISO 80MechanicalNominal ValueUnitTest MethodTensile Modulus> 600MPaISO 527-2Tensile Stress (Yield)17.0MPaISO 527-2Tensile Strain (Break)> 25%ISO 527-2Flexural Modulus600MPaISO 178ImpactNominal ValueUnitTest Method		0.50	g/10 min	ISO 1133
Durometer Hardness (Shore D) 58  Mechanical Nominal Value Unit Test Method  Tensile Modulus > 600 MPa ISO 527-2  Tensile Stress (Yield) 17.0 MPa ISO 527-2  Tensile Strain (Break) > 25 % ISO 527-2  Flexural Modulus 600 MPa ISO 178  Impact Nominal Value Unit Test Method	Environmental Stress-Cracking Resistance	> 600	hr	ASTM D1693
Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus         > 600         MPa         ISO 527-2           Tensile Stress (Yield)         17.0         MPa         ISO 527-2           Tensile Strain (Break)         > 25         %         ISO 527-2           Flexural Modulus         600         MPa         ISO 178           Impact         Nominal Value         Unit         Test Method	Hardness	Nominal Value	Unit	Test Method
Tensile Modulus       > 600       MPa       ISO 527-2         Tensile Stress (Yield)       17.0       MPa       ISO 527-2         Tensile Strain (Break)       > 25       %       ISO 527-2         Flexural Modulus       600       MPa       ISO 178         Impact       Nominal Value       Unit       Test Method	Durometer Hardness (Shore D)	58		ASTM D2240, ISO 868
Tensile Stress (Yield)       17.0       MPa       ISO 527-2         Tensile Strain (Break)       > 25       %       ISO 527-2         Flexural Modulus       600       MPa       ISO 178         Impact       Nominal Value       Unit       Test Method	Mechanical	Nominal Value	Unit	Test Method
Tensile Strain (Break)> 25%ISO 527-2Flexural Modulus600MPaISO 178ImpactNominal ValueUnitTest Method	Tensile Modulus	> 600	MPa	ISO 527-2
Flexural Modulus 600 MPa ISO 178 Impact Nominal Value Unit Test Method	Tensile Stress (Yield)	17.0	MPa	ISO 527-2
Impact Nominal Value Unit Test Method	Tensile Strain (Break)	> 25	%	ISO 527-2
Part and a second secon	Flexural Modulus	600	MPa	ISO 178
Charpy Unnotched Impact Strength No Break ISO 179	Impact	Nominal Value	Unit	Test Method
	Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal Nominal Value Unit Test Method	Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature < -60.0 °C ASTM D746A, ISO 9	Brittleness Temperature	< -60.0	°C	ASTM D746A, ISO 974
Vicat Softening Temperature 116 °C ASTM D1525, ISO 30	Vicat Softening Temperature	116	°C	ASTM D1525, ISO 306
Melting Temperature 126 °C ISO 11357-3, ASTM	Melting Temperature	126	°C	ISO 11357-3, ASTM D3418

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