# AMTOPP HD18

### Polypropylene

Inteplast Group

#### Message:

#### Matte Finish CoEx Heat Sealable

BIAXIALLY ORIENTED POLYPROPYLENE FILM ONE SIDE SEALABLE FOR FOOD PACKAGING

Uses     Film       Food Packaging       Physical     Nominal Value     Unit       Dimensional Stability 1       Across Flow, 130°C     <3.0     %0       Flow, 130°C     <5.0     %0       Mechanical     Nominal Value     Unit     Test Method       Opriamic     0.25     Static     0.35       Static     0.35      Stati Method       Film Thickness - Tested     18     µm        MD: Yield     117     MPa     ASTM D1894       MD: Yield     207     MPa        MD: Straak     190     %        MD: Break     190     %        MD: Break     7.0     g/m²/24 hr     ASTM D1249       Yield <sup>2</sup> 62.6     m²/kg     ASTM F1249       Yield <sup>2</sup> 62.6     m²/kg	
PhysicalNominal ValueUnitDimensional Stability 1<Across Flow, 130°C<3.0Flow, 130°C<5.0MechanicalNominal ValueUnitOpmanic0.2Coefficient of FrictionStatic0.35FlimsNominal ValueUnitFlimsNominal ValueUnitFilmsNominal ValueUnitFilmsNominal ValueUnitFilmsNominal ValueUnitFilmsNominal ValueUnitFilmsNominal ValueUnitFilmsNominal ValueUnitFilmsNominal ValueUnitFilms18umFilms17MPaTo Yield17MPaTo Yield107MPaIm Di Strangtion%To Strangtion%To Strangtion%MD: Straak190%MD: Straak70.3m/m/24 hrMorizer Vapor Transmission Rate (38°C,90%) RH)7.0m/m/24 hrYield 262.6m/kgFilms Stangtion"CKet Vapor Transmission Rate (38°C,90%) RH)%Yield 262.6m/kgFilms Stangtion%Ket Stangtion%Ket Stangtion%Ket Stangtion%Ket Stangtion%Ket Stangtion%Ket Stangtion%Ket Stangtion%Ket Stangtion% <t< th=""><th></th></t<>	
Dimensional Stability <sup>1</sup> Signed Stability <sup>1</sup> Across Flow, 130°C       < 3.0	
Dimensional Stability 1Across Flow, 130°C< 3.0	
Across Flow, 130°C< 3.0%How, 130°C< 5.0%MechanicalNominal ValueUnitTest MethodCoefficient of Friction.ASTM D1894Opnamic0.25Static0.35FlmsNominal ValueUnitTest MethodFilmsNominal ValueMpASTM D882MD : Yield117MPaASTM D882MD: Break190%CMater Vapor Transmission Rate (38°C, 90% KieldMpMpYield7.0g/m²/24 hrASTM F1249Yield62.6m²/kgMpYield62.6m²/kgMpHeat Seal Temperature - Untreeted side <sup>3</sup> 116°CSurface Energy40MpercenASTM D2578	
MechanicalNominal ValueUnitTest MethodCoefficient of FrictionASTM D1894Opnamic0.25Static0.35FilmsNominal ValueUnitFilmsNominal ValueUnitFilmsNominal ValueUnitFilms18µmTensile Strength117MPaTD: Yield207MPaTensile Elongation190%MD: Break190%TD: Strength7.0%Yater Vapor Transmission Rate (38°C, 90%) RH7.0g/m²/24 hrYield 262.6m²/kgYield 2116°CSurface Energy40dyne/cm	
Coefficient of Friction     ASTM D1894       Dynamic     0.25       Static     0.35       Films     Nominal Value     Unit     Test Method       Film Thickness - Tested     18     µm     STM D1892       Tensile Strength     117     MPa     ASTM D882       MD: Yield     207     MPa     STM D882       MD: Break     190     %     STM D882       MD: Break     70     %     STM D882       Vater Vapor Transmission Rate (38°C, 90%)     %     STM F1249       Yield <sup>2</sup> 62.6     m²/24 hr     ASTM D2578	
Dynamic0.25Static0.35FilmsNominal ValueUnitTest MethodFilm Thickness - Tested18µmTensile StrengthIT7MPaTD: Yield207MPaTD: Yield207MPaTensile Elongation%IT0MD: Break190%TD: Break70%Water Vapor Transmission Rate (38°C, 90%)70gm²/24 hrASTM F1249Yield ²62.6m²/kgASTM F1249Yield ²116°CIto Stim D2578Surface Energy40dyne/cmASTM D2578	
Static       0.35         Films       Nominal Value       Unit       Test Method         Film Thickness - Tested       18       µm       ASTM D882         Tensile Strength       117       MPa       ASTM D882         MD: Yield       117       MPa       Tensile Elongation       ASTM D882         TD: Yield       207       MPa       ASTM D882         MD: Break       190       %a       Tensile Elongation         MD: Break       190       %a       Tensile Strength         Vater Vapor Transmission Rate (38°C, 90%)       7.0       g/m²/24 hr       ASTM F1249         Yield <sup>2</sup> 62.6       m²/kg       ASTM F1249         Heat Seal Temperature - Untreated side <sup>3</sup> 116       °C         Surface Energy       40       dyne/cm       ASTM D2578	
FilmsNominal ValueUnitTest MethodFilm Thickness - Tested18 $\mu$ mTensile Strength17ASTM D882MD: Yield117MPaTD: Yield207MPaTensile ElongationVASTM D882MD: Break190%TD: Break70%1Water Vapor Transmission Rate (38°C, 90%) RH $^{-1}$ $p^{2}/24 hr$ ASTM F1249Yield $^{2}$ 62.6 $m^{2}/kg$ Heat Seal Temperature - Untreated side $^{3}$ 116°CSurface Energy40dyne/cmASTM D2578	
Film Thickness - Tested       18       μm         Tensile Strength       ASTM D882         MD : Yield       117       MPa         TD : Yield       207       MPa         Tensile Elongation       V       ASTM D882         MD : Break       190       %         TD : Break       70       %         TD : Break       70       %         Yield <sup>2</sup> 62.6       m²/24 hr       ASTM F1249         Yield <sup>2</sup> 62.6       m²/kg       STM F1249         Heat Seal Temperature - Untreated side <sup>3</sup> 116       °C	
Tensile Strength     ASTM D882       MD: Yield     117       TD: Yield     207       MD: Break     207       MD: Break     190       MD: Break     190       TD: Streak     70       MD: Break     62.6       MD: Seal     m²/24 hr       ASTM F1249       Yield <sup>2</sup> 62.6       Mot Seal Temperature - Untreated side <sup>3</sup> MO: Seal Temperature - Untreated side <sup>3</sup> 116       Surface Energy     40	
MD: Yield       117       MPa         TD: Yield       207       MPa         TD: Yield       207       MPa         To: Sile Elongation       ASTM D882         MD: Break       190       %         TD: Break       70       %         Water Vapor Transmission Rate (38°C, 90%)       7.0       g/m²/24 hr       ASTM F1249         Yield ²       62.6       m²/kg       -         Heat Seal Temperature - Untreated side ³       116       °C         Surface Energy       40       dyne/cm       ASTM D2578	
TD: Yield207MPaTo: Steak190%TD: Break70%Water Vapor Transmission Rate (38°C, 90%)70%Yield 262.6m²/24 hrASTM F1249Field 2116°CSurface Energy40dyne/cmASTM D2578	
Implement     ASTM D882       MD: Break     190     %       TD: Break     70     %       Water Vapor Transmission Rate (38°C, 90%     g/m²/24 hr     ASTM F1249       Yield <sup>2</sup> 62.6     m²/kg     STM F1249       Heat Seal Temperature - Untreated side <sup>3</sup> 116     °C     STM D2578	
MD: Break190%TD: Break70%Water Vapor Transmission Rate (38°C, 90% RH)7,0g/m²/24 hrASTM F1249Yield 262.6m²/kgHeat Seal Temperature - Untreated side 3116°CSurface Energy40dyne/cmASTM D2578	
TD : Break70%Water Vapor Transmission Rate (38°C, 90% RH)7.0g/m²/24 hrASTM F1249Yield ²62.6m²/kg-Heat Seal Temperature - Untreated side ³116°C-Surface Energy40dyne/cmASTM D2578	
Water Vapor Transmission Rate (38°C, 90% RH)7.0g/m²/24 hrASTM F1249Yield ²62.6m²/kgHeat Seal Temperature - Untreated side ³116°CSurface Energy40dyne/cmASTM D2578	
RH)7.0g/m²/24 hrASTM F1249Yield ²62.6m²/kgHeat Seal Temperature - Untreated side ³116°CSurface Energy40dyne/cmASTM D2578	
Yield 262.6m²/kgHeat Seal Temperature - Untreated side 3116°CSurface Energy40dyne/cmASTM D2578	
Heat Seal Temperature - Untreated side 3116°CSurface Energy40dyne/cmASTM D2578	
Surface Energy 40 dyne/cm ASTM D2578	
Optical Nominal Value Unit Test Method	
Haze 73 % ASTM D1003	
NOTE	
1. 5 minutes	
2. Internal Method	
3. 1/2 sec, 30 PSI	

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## 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

