Hanwha Total PP BI300

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

BI300 is a high isotactic Block Copolymer which has higher crystallinity, compared to general PP. Due to high crystalline nature & optimum rubber design, BI300 has an excellent property balance between high stiffness and impact strength. Films made from this grade provide high heat resistance and superior mechanical strength, thus this grade is highly suited to retort pouch film application.

U. VellowCardE14031-222882FeaturesBlock CopolymerGood dimensional stabilityKigdity, highHigh strengthGood disinfectionm-benzene dimethylCrystalizationImpact resistance, highLow temperature impact resistanceHigh pressure heating resistanceHigh pressure heating resistanceHigh pressure heating resistanceHigh pressure hacting suppliesFormsProcessing MethodImpact neinspacePhysicalPhysicalPhysicalMetical/nursing suppliesFormsPhysicalMetical/nursing suppliesPhysicalMetical/nursing suppliesFormsPhysicalMetical/nursing suppliesFormsPhysicalMetical/nursing suppliesFormsPhysicalMetical/nursing suppliesFormsPhysicalMetical/nursing suppliesFormsMetical/nursing suppliesFormal StategetherMetical/nursing suppliesFormal StategetherMetical/nursing suppliesFormal StategetherMetical/nursing suppliesFormal StategetherMetical/nursing suppliesFormal StategetherMetical/nursing suppliesMetical/nursing suppliesMetical/nursing suppliesMetical/nursing suppliesMetical/nursing suppliesMetical/nursing suppliesMetical/nursing supplies <th>General Information</th> <th></th> <th></th> <th></th>	General Information				
Good dimensional stabilityRigidiy, highHigh strengthGood disinfectionm-benzene dimethylCrystalizationImpact resistance, highLow temperature impact resistanceHigh pressure heating resistanceHigh pressure heating resistance, highExcellent apperanceKerter Stance, highHeat resistance, highKerter Stance, highHeat resistance, highHeat resistance, highKerter Stance, highHeat resistance, highHeat resistance, highKerter Stance, highHeat resistance, highKerter Stance, highHeat resistance, highKerter Stance, highKerter Stance, highKerter Stance, highHeat resistance, highKerter Stance, H	UL YellowCard	E140331-222882			
Rightly, highHigh strengthGood disinfectionm-benzene dimethylCrystallizationImpact resistance, highLow temperature impact resistanceHear resistance, highExcellent apperanceHear resistance, highExcellent apperanceVersionMerical/nursing suppliesFornsPhysicalPhysicalPhysicalNersion MethodMetical/nursing suppliesVersion MethodNormal ValueMetical/nursing suppliesProfesProfesProfesMetical/nursing suppliesVersion MethodNormal ValueMetical/nursing suppliesScolentialScolentialScolentialMetical/nursing suppliesVersion MethodNormal ValueMetical/nursing suppliesScolentialScolentialScolentialMetical/nursing suppliesScolentialMetical/nursing suppliesScolentialScolentialMetical/nursing suppliesScolentialMetical/nursing suppliesScolentialMetical/nursing suppliesScolentialMetical/nursing suppliesScolentialMetical/nursing suppliesScolentialMetical/nursing suppliesScolentialMetical/nursing suppliesScolentialMetical/nursing suppliesScolentialMetical/nursin	Features				
High strengthGood disinfectionm-benzene dimethylCrystallizationImpact resistance, highLow temperature impact resistanceHigh pressure heating resistanceHigh pressure heating resistanceHeat resistance, highExcellent appearanceVerseFormsParticleProcessing MethodNominal ValueMidan Junial ValueMidananial MarkonMidananial MarkonMidenanial MarkonMethodanialMethodanialMethodanialMidananial MarkonMidananial MarkonMidananial MarkonMidananial MarkonMidananial MarkonMidananial MarkonMethodanialMethodanialMidananial MarkonMidananial M					
Good disinfection in-benzene dimethyl Cystallization Impact resistance, high Low temperature impact resistance High pressure heating resistance Heat resistance, high Excellent appearanceSecond Second S		Rigidity, high			
m-bezee dimethyl Cystalization Impact resistance. high Low temperature impact resistance High pressure heating resistance 		High strength			
Cystallization Impact resistance, high Low temperature impact resistance High pressure heating resistance high heating resistance High pressure heating resistance High pressure heating resistance high heating resistance High pressure heating resistance heating resist		Good disinfection			
Impact resistance, high Low temperature impact resistance High pressure heating resistance Heat resistance, high Excellent appearanceImpact resistance, high Excellent appearanceUsesFilms Fod packaging Medical/nursing suppliesImpact - Impact - Imp		m-benzene dimethyl			
Low temperature impact resistance High pressure heating resistance Heat resistance, high Heat resistance, high Evelent appearanceSubsect Subs		Crystallization			
High pressure heating resistance Heat resistance, high Excelent appearanceUsesFilms Fod packaging Medial/nursing suppliesFormsParticleProcessing MethodInterton moldingPhysicalNominal ValueMith Sas-Filow Rate (MFR) (230°C/216) Kg)JolanoRockwell Hardness (R-Scale)3.0Rockwell Hardness (R-Scale)IntertonRockwell Hardness (R-Scale)10Minal ValueUnit Rest MethodRockwell Hardness (R-Scale)3.0Menial ValueUnitTensile Strength ¹ (Break)5.0Solonal CaleMarianoTensile Strength ¹ (Break)5.0Solonal ValueMainTensile Strength ¹ (Break)6.0Menial ValueMainTensile Strength ¹ (Break)6.0Minal ValueMainMethodSith DrosiFilmsNominal ValueMinal ValueMainMethodSith DrosiFilmsKominal ValueMethodMainMinal ValueMainMinal ValueMainMethodMainMinal ValueMainMinal		Low temperature impact resistance High pressure heating resistance			
Heat resistance, high Excellent appearanceUsesFilms Fod packaging Medical/nursing suppliesFormsParticleProcessing Methodinjection moldingPhysicalNormial ValueMeth Mass-Flow Rate (MFR) (230°C/2.16 					
Excellent appearanceUsesFilms Fod packaging Medical/nursing suppliesFormsParticeProcessing Methodinjection moldingPhysicalNominal ValueMethadss-Flow Rate (MFR) (230°C/216) Kg)JolNominal ValueUnitMethadssSand MathodActive SandowJolReckwell Hardness (R-Scale)81KendanicalNominal ValueMethadson (2 Greak)Sand MathodReckwell Hardness (R-Scale)81SandowMarkanReckwell Hardness (R-Scale)Sand MathodReckwell Hardness (R-Scale)Sand MathodSandowMarkanReckwell Hardness (R-Scale)Sand MathodSandowMarkanReckwell Mark (1974)SandowReckwell Mark (1974)SandowSandowMarkanReckwell Mark (1974)SandowSandowMarkanSandowMarkanSandowMarkanSandowSandowSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandowMarkanSandow					
UsesFilms Fod packaging Medical/nursing suppliesFormsParticleProcessing MethodInjection moldingPhysicalNominal ValueUnitMethodstace (MFR) (230°C/2.16 kg)3.0g/10 minMethass-Flow Rate (MFR) (230°C/2.16 kg)3.0g/10 minAddressNominal ValueUnitRockwell HardnessRStri D1238MechanicalNominal ValueUnitRockwell Hardness (R-Scale)81Stri D705MechanicalNominal ValueUnitTensile Strength ¹ (Break)30MPaStri D12381470MPaFlimsNominal ValueUnitFlinsher Strested60µm					
Food packaging Medical/nursing suppliesFormsPartcleProcessing MethodInjection moldingPhysicalNominal ValueUnitMethysse-Flow Rate (MFR) (230°C/2.16) (3)JoJo10 minMethysse-Flow Rate (MFR) (230°C/2.16) (3)Jo20Jo10minMethadsse-Flow Rate (MFR) (230°C/2.16) (3)Jo20Jo10 minMethysse-Flow Rate (MFR) (230°C/2.16) (3)Jo20Jo20Methysse-Flow Rate (MFR) (230°C/2.16) (3)Jo20Jo20 <t< td=""><td></td><td>Excellent appearance</td><td></td><td></td></t<>		Excellent appearance			
Food packaging Medical/nursing suppliesFormsPartcleProcessing MethodInjection moldingPhysicalNominal ValueUnitMethysse-Flow Rate (MFR) (230°C/2.16) (3)JoJo10 minMethysse-Flow Rate (MFR) (230°C/2.16) (3)Jo20Jo10minMethadsse-Flow Rate (MFR) (230°C/2.16) (3)Jo20Jo10 minMethysse-Flow Rate (MFR) (230°C/2.16) (3)Jo20Jo20Methysse-Flow Rate (MFR) (230°C/2.16) (3)Jo20Jo20 <t< td=""><td></td><td></td><td></td><td></td></t<>					
Medical/nursing suppliesFormsParticeProcessing MethodIgetion moldingPhysicaNomina ValueMeth Mass-Flow Rate (MFR) (230°C/2.16) kg)J.0JoJoninal ValueMeth Mass-Flow Rate (MFR) (230°C/2.16) kg)J.0Meth Mass Rate (MFR) (230°C/2.16)	Uses	Films			
FormsParticleProcessing MethodInjection moldingPhysicalNominal ValueUnitMelt Mass-Flow Rate (MFR) (230°C/2.16 kg)3.0g/10 minMelt Mass-Flow Rate (MFR) (230°C/2.16 kg)3.0g/10 minMethanses Re-ScaleNominal ValueUnitRockwell Hardness (R-Scale)81STM D785MechanicalNominal ValueUnitTensile Strength ¹ (Break)3.0MPaSton D785500%ASTM D638Flexural Modulus ³ 1470MPaFlimsNominal ValueUnitFlimsKominal ValueMaManaASTM D790FlimsNominal ValueMaFlimsKominal ValueMaFlimsGominal ValueManaMaAstm D790		Food packaging			
Processing MethodInjection moldingPhysicalNominal ValueUnitTest MethodMelt Mass-Flow Rate (MFR) (230°C/2.16 kg)3.0g/10 minASTM D1238HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)81ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength ¹ (Break)23.5MPaASTM D638Fensile Elongation ² (Break)500%ASTM D638Flexural Modulus ³ 1470MPaASTM D790FilmsNominal ValueUnitTest MethodFilmsKominal ValueUnitTest Method		Medical/nursing supplies			
Processing MethodInjection moldingPhysicalNominal ValueUnitTest MethodMelt Mass-Flow Rate (MFR) (230°C/2.16 kg)3.0g/10 minASTM D1238HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)81ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength ¹ (Break)23.5MPaASTM D638Fensile Elongation ² (Break)500%ASTM D638Flexural Modulus ³ 1470MPaASTM D790FilmsNominal ValueUnitTest MethodFilmsKominal ValueUnitTest Method					
PhysicalNominal ValueUnitTest MethodMelt Mass-Flow Rate (MFR) (230°C/2.16 kg)3.0g/10 minASTM D1238HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)81ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength ¹ (Break)23.5MPaASTM D638Tensile Elongation ² (Break)500%ASTM D638Flexural Modulus ³ 1470MPaASTM D790FilmsNominal ValueUnitTest Method	Forms	Particle			
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)3.0g/10 minASTM D1238HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)81ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength ¹ (Break)23.5MPaASTM D638Tensile Elongation ² (Break)500%ASTM D638Flexural Modulus ³ 1470MPaASTM D790FilmsNominal ValueUnitTest MethodFilm Thickness - Tested60µmHarden	Processing Method	Injection molding			
kg)3.0g/10 minASTM D1238HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)81STM D785MechanicalNominal ValueUnitTest MethodTensile Strength ¹ (Break)23.5MPaASTM D638Tensile Elongation ² (Break)500% PaASTM D638Flexural Modulus ³ 1470MPaASTM D790FilmsNominal ValueUnitTest MethodFilm Thickness - Tested60µmState State	Physical	Nominal Value	Unit	Test Method	
HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)81ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength ¹ (Break)23.5MPaASTM D638Tensile Elongation ² (Break)500%ASTM D638Flexural Modulus ³ 1470MPaASTM D790FilmsNominal ValueUnitTest MethodFilms60µmImage: Comparison of the test of tes					
Rockwell Hardness (R-Scale)81ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength ¹ (Break)23.5MPaASTM D638Tensile Elongation ² (Break)500%ASTM D638Flexural Modulus ³ 1470MPaASTM D790FilmsNominal ValueUnitTest MethodFilm Thickness - Tested60µmImage: Contract of the state of the stat			-		
MechanicalNominal ValueUnitTest MethodTensile Strength ¹ (Break)23.5MPaASTM D638Tensile Elongation ² (Break)500%ASTM D638Flexural Modulus ³ 1470MPaASTM D790FilmsNominal ValueUnitTest MethodFilm Thickness - Tested60μm			Unit		
Tensile Strength ¹ (Break)23.5MPaASTM D638Tensile Elongation ² (Break)500%ASTM D638Flexural Modulus ³ 1470MPaASTM D790FilmsNominal ValueUnitTest MethodFilm Thickness - Tested60µmImage: Construction of the struction of th					
Tensile Elongation 2 (Break)500%ASTM D638Flexural Modulus 31470MPaASTM D790FilmsNominal ValueUnitTest MethodFilm Thickness - Tested60µmImage: Comparison of the second					
Flexural Modulus 31470MPaASTM D790FilmsNominal ValueUnitTest MethodFilm Thickness - Tested60µm	-				
FilmsNominal ValueUnitTest MethodFilm Thickness - Tested60µm					
Film Thickness - Tested 60 µm	Flexural Modulus ³				
	Films		Unit	Test Method	
Tensile Strength ASTM D882		60	μm		
	Tensile Strength			ASTM D882	

MD: Yield, 60 µm	22.6	MPa	ASTM D882
TD: Yield, 60 μm	20.6	MPa	ASTM D882
MD: Break, 60 µm	53.0	MPa	ASTM D882
TD: Break, 60 µm	36.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 60 µm	700	%	ASTM D882
TD: Break, 60 µm	700	%	ASTM D882
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C	29	J/m	ASTM D256
5°C	39	J/m	ASTM D256
23°C	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load	(0.45		
MPa, Unannealed)	110	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525 ⁴
Melting Temperature	163	°C	
Optical	Nominal Value	Unit	Test Method
Haze (60.0 µm)	28	%	ASTM D1003
Additional Information			
Izod Impact Strength, ASTM D3420: 3	3000 kg-cm/cm		
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	压力1 (10N)		

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

