# Jampilen EP300D

## Polypropylene Copolymer

### Jam Polypropylene Company

#### Message:

Jampilen EP300D is a high molecular weight, heterophasic polypropylene copolymer designed for extrusion applications which require a balance of high stiffness and very good impact strength. Jampilen EP300D offers excellent processability in extrusion. The final items show very good mechanical properties, even at temperatures down to -20°C. Major Applications of Jampilen EP300D are profiles, pipes, ducts for electrical distribution and automotive parts. This grade is also used for extrusion blow molding pigmented, glossy monolayer bottles for toiletries, detergents and foodstuffs. Jampilen EP300D is also well suited for corrugated board and sheet for thermoforming. Jampilen EP300D is suitable for food contact.

Features       Copolymer         Food Contact Acceptable       Good Processability         Good Processability       High Impact Resistance         High Molecular Weight       High Molecular Weight         High Stiffness       Conduit         Corrugated Sheet       Piping         Processing Method       Blow Molding         Extrusion       Profiles         Sheet       Piping         Processing Method       Blow Molding         Extrusion       Profile Extrusion         Profile Extrusion       Text Method         Denity       0.900       g/cm³       ASTM D1505         Meth Mass-Flow Rate (MFR) (230°C/2.16 Kg)       0.80       g/10 min       ASTM D1505         Hardness       Nominal Value       Unit       Test Method         Methanial       Nominal Value       Unit       ASTM D1505         Mechanical       Nominal Value       Unit       Test Method         Rockwell Hardness (R-Scale)       90       Test Method       Method         Rockwell Hardness (R-Scale)       90       ASTM D1528       Test Method         Rockwell Hardness (R-Scale)       90       Test Method       ASTM D1528         Heranies Extronght (Yield)       30.0       Meho <th>General Information</th> <th></th> <th></th> <th></th>	General Information			
Good Processability High Impact Resistance High Molecular Weight High StiffnessSet Set Set Set Set Set Set Set Set Set	Features	Copolymer		
High Impact Resistance High Molecular Weight High StiffnessHigh Ender High StiffnessUsesBotles Conduit Corrugated Sheet		Food Contact Acceptable		
High Molecular Weight High StiffnessUsesBottes Conduit Corrugated Sheet Piping Pofiles SheetProcessing MethodBow Molding Extrusion Pofile Extrusion Pofile Extrusion ThermoformingPhysicaMomal ValuePhysicaMomal ValuePhysicaJointPhysicaSinderPhysicaJointPhysicaMomal ValueDensityMomal ValueMomal ValueJointMethodJoint<		Good Processability		
High Stiffness Uses Uses Uses Uses Uses Uses Uses		High Impact Resistance		
UsesBotlesConduitCorrugated SheetPipingProfilesProfilesSheetSheetSheetProcessing MethodBlow MoldingExtrusionProfile ExtrusionProfile ExtrusionProfile ExtrusionProfilesJoe ExtrusionProfilesGolderDensityNominal ValueMethodsGroupMethodsSoloMethodsGolderMethodsSoloMethodsGolderMethodsMoninal ValueMethodss-Flow Rate (MFR) (23°°C/2.16's)kg)SoloMethodss-Flow Rate (MFR) (23°°C/2.16's)kg)SoloMethodss-Flow Rate (MFR) (23°°C/2.16's)kg)SoloMethodss-Flow Rate (MFR) (23°°C/2.16's)kg)SoloMethodsGoldMethodSoloMethodSoloMethodSoloMethodsSoloMethodsSoloSoloMitalRockwell Hardness (R-Scale)SoloMethodInitalTensile Strength (Yield)SoloSoloMethodSoloSoloSoloSoloMethodSolo </td <td></td> <td>High Molecular Weight</td> <td></td> <td></td>		High Molecular Weight		
Conduit Corrugated SheetPipingProfilesSheetProcessing MethodBlow MoldingExtrusionPipe ExtrusionProfile ExtrusionProfile ExtrusionThermoformingPhysicalNominal ValueDensity0.900Mominal ValueJotanMethodSthu DisosMethodSthu DisosMethodSind DisosMethodMominal ValueMethodMotinal StallMethodMominal ValueMethodStall DisosMethodMominal ValueMethodMotinal StallRockwell Hardness (R-Scale)9Mominal ValueUnitMethodMominal ValueMethodManaRockwell HardnessSionMethodManaStall DisosSim DisosTensile Strength (Yield)SioSionSim DisosTensile Extragion (Yield)SionSionSim DisosStall DisosSim DisosMethodManaStall DisosSim DisosStall DisosSim DisosMethodSim DisosMethodSim DisosStall DisosSim DisosStall Disos <t< td=""><td></td><td>High Stiffness</td><td></td><td></td></t<>		High Stiffness		
Conduit Corrugated SheetPipingProfilesSheetProcessing MethodBlow MoldingExtrusionPipe ExtrusionProfile ExtrusionProfile ExtrusionThermoformingPhysicalNominal ValueDensity0.900Mominal ValueJotanMethodSthu DisosMethodSthu DisosMethodSind DisosMethodMominal ValueMethodMotinal StallMethodMominal ValueMethodStall DisosMethodMominal ValueMethodMotinal StallRockwell Hardness (R-Scale)9Mominal ValueUnitMethodMominal ValueMethodManaRockwell HardnessSionMethodManaStall DisosSim DisosTensile Strength (Yield)SioSionSim DisosTensile Extragion (Yield)SionSionSim DisosStall DisosSim DisosMethodManaStall DisosSim DisosStall DisosSim DisosMethodSim DisosMethodSim DisosStall DisosSim DisosStall Disos <t< td=""><td></td><td></td><td></td><td></td></t<>				
Corrugated SheetPipingProfilesSheetProcessing MethodBlow MoldingExtrusionPipie ExtrusionProfile ExtrusionProfile ExtrusionProfile ExtrusionProfile ExtrusionDensity0Mominal ValueMethodMethodSoloMethodMethodMethodMethodDensity0MethodMetho	Uses	Bottles		
Piping Profiles ShetPiping Profiles ShetProcessing MethodBow Molding Extrusion Pipie Extrusion Profile Extrusion ThermoformingFartuation Profile Extrusion DensityPhysicalNominal ValueUnitTest MethodPosties0.900grom³ASTM D1238Methass-Flow Rate (MFR) (230°C/L21) Rg)0.80y10 minASTM D1238MethandessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)0.0MPaASTM D783MethandelNominal ValueUnitTest MethodTensile Strength (Yield)0.0MPaASTM D638Tensile Elongation (Yield)13%MethodMethod		Conduit		
Profiles ShetProcessing MethodBlow Molding Extrusion Pipe Extrusion Profile Extrusion ThermoformingPhysicalNominal ValuePhysical0.900Mominal ValueMorian Cast MethodMethodsser-Flow Rate (MFR) (230°C/2.16 kg)0.80Motinal ValueUnitMethodsser-Flow Rate (MFR) (230°C/2.16 kg)0.80Methodsser-Flow Rate (MFR) (230°C/2.16 kg)0.80		Corrugated Sheet		
ShetProcessing MethodBow Molding Extrusion Pipe Extrusion Pofile Extrusion TermoformingPhysicalNominal ValuePhysicalNominal ValueNominal ValueVintPostSolonMethodJordMethodJordMethodJordManageJordMethodJordMethodJordMethodJordMethodJordMethodJordMethodMinal ValueMethodMinal ValueMethodJordRockwell Hardness (R-Scale)9MethodMinal ValueMethodManageTensile Strength (Vield)30ManageManageMethodManageMethodManageMethodStru Dross		Piping		
Processing MethodBlow Molding Extrusion Pipe Extrusion Profile Extrusion ThermoformingExtrusion Profile Extrusion ThermoformingPhysicalNominal ValueUnitTest MethodPostiv0.900g/cm³ASTM D1505Meth Mass-Flow Rate (MFR) (230°C/2.16 Kg)0.80g/10 minASTM D1505Meth Mass-Flow Rate (MFR) (230°C/2.16 Kg)0.80MPaASTM D638Method13%ASTM D638		Profiles		
ExtrusionPipe ExtrusionProfile ExtrusionThermoformingPhysicalNominal ValueOnitionTest MethodDensity0.900Methass-Flow Rate (MFR) (230°C/2.16 (g)0.800Nominal ValueUnitNominal ValueUnitReckwell Hardness (R-Scale)0.90Sockwell Hardness (R-Scale)0.90Nominal ValueUnitMechanicalNominal ValueInsile Strength (Yield)3.0MachanicalASTM D638Tensile Elongation (Yield)13%ASTM D638		Sheet		
ExtrusionPipe ExtrusionProfile ExtrusionThermoformingPhysicalNominal ValueOnitionTest MethodDensity0.900Methass-Flow Rate (MFR) (230°C/2.16 (g)0.800Nominal ValueUnitNominal ValueUnitReckwell Hardness (R-Scale)0.90Sockwell Hardness (R-Scale)0.90Nominal ValueUnitMechanicalNominal ValueInsile Strength (Yield)3.0MachanicalASTM D638Tensile Elongation (Yield)13%ASTM D638				
Pipe Extusion Profile Extusion TermoformingVinitVestion SectionPhysicalNominal ValueUnitTest MethodDensity0.900g/cm³ASTM D1505Meth Mass-Flow Rate (MFR) (230°C/2.16 kg)0.80g/10 minASTM D1238Meth Mass-Flow Rate (MFR) (230°C/2.16 kg)0.80g/10 minASTM D1238Meth Mass-Flow Rate (MFR) (230°C/2.16 kg)0.80J01 minASTM D1238Meth Mass-Flow Rate (MFR) (230°C/2.16 kg)0.80J01 minTest MethodMethadses (F-Scale)0.80J01 minASTM D1238MechanicalNominal ValueUnitTest MethodMechanicalNominal ValueUnitTest MethodTestie Etongation (Yield)13%ASTM D638	Processing Method	Blow Molding		
Profile Extrusion ThermoformingPhysicalNominal ValueUnitTest MethodDensity0.900g/cm³ASTM D1505MetMass-Flow Rate (MFR) (230°C/2.16) kg)0.80g/10minal MathodASTM D1238MetMass-Flow Rate (MFR) (230°C/2.16) kg)0.80UnitTest MethodMetMass-Flow Rate (MFR) (230°C/2.16) kg)0.80UnitTest MethodMetMass-Flow Rate (MFR) (230°C/2.16) kg)0.80UnitTest MethodMethod kg)0.80UnitTest MethodMethod hanial ValueUnitTest MethodMethodMechanical0.00MPaASTM D638Tensile Elongation (Yield)13% and Stom D638Method		Extrusion		
ThermoformingPhysicalNominal ValueUnitTest MethodDensity0.900g/cm³ASTM D1505Meth Mass-Flow Rate (MFR) (230°C/2.16 kg)0.80g/10 minASTM D1238MethanessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)90XTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)3.00MPaASTM D638Tensile Elongation (Yield)13%Method		Pipe Extrusion		
PhysicalNominal ValueUnitTest MethodDensity0.900g/cm³ASTM D1505Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)0.800g/10 minASTM D1238Hardness0.800g/10 minASTM D1238Hardness (R-Scale)90Test MethodASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)30.0MPaASTM D638Tensile Elongation (Yield)13%ASTM D638		Profile Extrusion		
Density0.900g/cm³ASTM D1505Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)0.80g/10 minASTM D1238HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)90STM D785ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)30.0MPaASTM D638Tensile Elongation (Yield)13%ASTM D638		Thermoforming		
Density0.900g/cm³ASTM D1505Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)0.80g/10 minASTM D1238HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)90STM D785ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)30.0MPaASTM D638Tensile Elongation (Yield)13%ASTM D638				
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)0.80g/10 minASTM D1238HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)90ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)30.0MPaASTM D638Tensile Elongation (Yield)13%ASTM D638	Physical	Nominal Value		Test Method
kg)0.80g/10 minASTM D1238HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)90STM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)30.0MPaASTM D638Tensile Elongation (Yield)13%1ASTM D638	Density	0.900	g/cm <sup>3</sup>	ASTM D1505
HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)90ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)30.0MPaASTM D638Tensile Elongation (Yield)13%ASTM D638		0.80	c/10 min	
Rockwell Hardness (R-Scale)90ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)30.0MPaASTM D638Tensile Elongation (Yield)13%1ASTM D638			-	
MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)30.0MPaASTM D638Tensile Elongation (Yield)13%ASTM D638			Onit	
Tensile Strength (Yield)30.0MPaASTM D638Tensile Elongation (Yield)13%ASTM D638			Unit	
Tensile Elongation (Yield)     13     %     ASTM D638				
-	-			
Impact Nominal Value Unit Test Method				

Notched Izod Impact			ASTM D256
-20°C	50	J/m	
0°C	130	J/m	
23°C	600	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525 <sup>1</sup>
Accelerated Oven Ageing (150°C)	360	hr	ASTM D3012
NOTE			
1.	Loading 1 (10 N)		

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

