# MAJ'ECO CEP204EW

### Polyethylene

AD majoris

#### Message:

MAJ'ECO CEP204EW is a vegetal fibre polyethylene compound intended for injection moulding. MAJ'ECO CEP204EW has been developed especially for demanding applications in various engineering sectors. APPLICATIONS Product such as: Boxes Bottles Racks

Technical components...

Features   Updatable resources     Recyclable materials     Uses   Bottle     Bracket     Forms   Particle     Processing Method   Bow molding     Injection molding   Injection molding     Physical   Nominal Value   Insol     Posticy   g/ra <sup>na</sup> Iso 1183     Physical   Nominal Value   Iso 1183     Methanization   g/ra <sup>na</sup> Iso 1183     Methanization   Solo   g/ra <sup>na</sup> Iso 1183     Methanization   Nominal Value   Unit   Test Method     Tensile Modulus   A65   MPa   Iso 127-2/1     Tensile Stress (Yileli)   325   MPa   Iso 127-2/5     Flexural Stress 2 <sup>n</sup> 12.5   MPa   Iso 127-2/5     Impact   Mominal Value   Iso 127-2/5   Iso 127-2/5     Impact   12.5   MPa   Iso 127-2/5     Charry Mothed Impact Strength (2 <sup>3</sup> C)   12.5   MPa   Iso 127-2/1     Impact   Mominal Value   Iso 179/1eA   Iso 179/1eA     Charry Mothed Impact Strength (2 <sup>3</sup> C)   12.5   MPa	General Information			
Reyclable materialsUsesBotte BacketProcessing MethodParicleProcessing MethodBow molding Iterction moldingProjecialNominal ValueInitPonsiv0.900gran <sup>2</sup> MethandationJondonIso 1183MethandationNominal ValueIso 1183MethandationJondonIso 1183MethandationNominal ValueIso 1183MethandationNominal ValueIso 1283MethandationSo 2000Iso 1283Tensile ModulusA65MPa ContoTensile Modulus10Iso 27-2/10Tensile Modulus10Iso 27-2/10Tensile Modulus10Iso 27-2/10Tensile Modulus10Iso 1284Reycard Strengt Qi12.5Maria ValueInpattores 2 <sup>1</sup> 12.5Maria ValueCharpy Notched Impact Strengt Qi3Maria ValueCharpy Notched Impact Strengt Qi14Iso 1291/PitFlamabilityMemial ValueIso 1291/PitFlamabilityMemial ValueIso 1291/PitTensing MotoresMemial ValueIso 1291/PitTensing MotoresMemi	Filler / Reinforcement	Natural fiber reinforced material		
Bate     Backet     Forms   Particle     Processing Method   Bow molding     Injection molding   Injection molding     Physical   Nominal Value   Vinit     Density   090   grown   Iso 1183     Meth Mass-Flow Rate (MFR) (190°C/2.16)   3.0   grown   Iso 1133     Meth Mass-Flow Rate (MFR) (190°C/2.16)   3.0   grown   Iso 1133     Meth Mass-Flow Rate (MFR) (190°C/2.16)   3.0   grown   Iso 1133     Meth Mass-Flow Rate (MFR) (190°C/2.16)   1.0   Iso 1133   Iso 1133     Methanization   Anominal Value   Unit   Test Method     Methanization   1.0   MPa   Iso 127-2/50     Tensile Modulus 1   1.0   Iso 173   Iso 173     Tensile Stress (Vield)   1.2   MPa   Iso 173     Floward Modulus 1   1.0   Iso 174   Iso 174     Tensile Modulus 1   1.0   Iso 174   Iso 174     Floward Modulus 1   1.0   Iso 179   Iso 174     Tensile Modulus 1   Iso 174   Iso 179   Iso 179     Tensine Mot	Features	Updatable resources		
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BrackFormsParticeProcessing MethodBow molding isction moldingInternationalNominal ValuePhysicalNominal ValueDensity090DensitySol 103Methodass-Flow Rate (MFR) (190°C/2.16) Kg)Nominal ValueMethodass-Flow Rate (MFR) (190°C/2.16) Kg)Nominal ValueMethodasiNominal ValueMethodasiNominal ValueMethodaulusNominal ValueMethodaulusNominal ValueTensile ModulusA65Nominal ValueMaFlexural Modulus10Sin Sol				
Forms   Particle     Processing Method   Blow molding Injection molding     Injection molding     Physical   Nominal Value   Unit on fest Method     Density   090   g/ru <sup>2</sup> n <sup>2</sup> 50 1183     Meth Mass-Flow Rate (MFR) (190°/2/-16 kg)   3/0   g/10 min   50 1133     Methanization   Nominal Value   Unit   Test Method     Mechanical   Nominal Value   Unit   50 527-2/1     Tensile Modulus <sup>1</sup> A65   MPa   50 527-2/1     Tensile Stress (vield)   353   MPa   50 178     Flexural Modulus <sup>1</sup> 125   S0 737   1     Impact   Nominal Value   Vin <sup>2</sup> 50 737-2/1     Impact   Nominal Value   MPa   50 527-2/1     Impact   Nominal Value   MPa   50 527-2/1     Impact   Nominal Value   Vin <sup>2</sup> 50 738-     Charpy Motched Impact Strength (23°C)   12   Kim <sup>2</sup> 50 737-     Flexural Mottoped Impact Strength (23°C)   13   Kim <sup>2</sup> 50 737-     Charpy Motched Impact Strength (23°C)   13   Kim <sup>2</sup> 50 737- <td< td=""><td>Uses</td><td>Bottle</td><td></td><td></td></td<>	Uses	Bottle		
Processing Method   Blow molding     Injection moldings     Physical   Nominal Value   Unit   Test Method     Density   0.990   g/cm³   ISO 1183     Meth Mass-Flow Rate (MFR) (190°C/2.16 Kg)   3.0   g/10 min   ISO 1133     Methanical   Nominal Value   Unit   Test Method     Tensile Modulus   Nominal Value   Unit   Test Method     Tensile Stress (Yield)   7.60   MPa   ISO 178     Flexural Modulus <sup>1</sup> 335   MPa   ISO 178     Flexural Stress <sup>2</sup> 12.5   MPa   ISO 179/164     Charpy Notched Impact Strength (23°C)   13   I/m²   ISO 179/164     Flammability   Nominal Value   Unit   Test Method     Flam Rating   HB   Unit   UL 94     Injection   Nominal Value   Unit   UL 94     Injection   Nominal Value   Unit   Test Method     Ingertion   Nominal Value   UL 94   UL 94     Injection   Nominal Value   Unit   Test Method     Injection   Nominal Value   UL 94   U		Bracket		
Processing Method   Blow molding     Injection moldings     Physical   Nominal Value   Unit   Test Method     Density   0.990   g/cm³   ISO 1183     Meth Mass-Flow Rate (MFR) (190°C/2.16 Kg)   3.0   g/10 min   ISO 1133     Methanical   Nominal Value   Unit   Test Method     Tensile Modulus   Nominal Value   Unit   Test Method     Tensile Stress (Yield)   7.60   MPa   ISO 178     Flexural Modulus <sup>1</sup> 335   MPa   ISO 178     Flexural Stress <sup>2</sup> 12.5   MPa   ISO 179/164     Charpy Notched Impact Strength (23°C)   13   I/m²   ISO 179/164     Flammability   Nominal Value   Unit   Test Method     Flam Rating   HB   Unit   UL 94     Injection   Nominal Value   Unit   UL 94     Injection   Nominal Value   Unit   Test Method     Ingertion   Nominal Value   UL 94   UL 94     Injection   Nominal Value   Unit   Test Method     Injection   Nominal Value   UL 94   U				
Injection molding       Physical     Nominal Value     Unit     Test Method       Density     0,900     g/cm³     ISO 1183       Meth Mass-Flow Rate (MFR) (190°C/2.16 kg)     3.0     g/10 min     ISO 1133       Methanical     Nominal Value     Unit     Test Method       Tensile Modulus     465     MPa     ISO 1737       Tensile Stress (Yield)     7.60     MPa     ISO 178       Flexural Modulus <sup>1</sup> 335     MPa     ISO 178       Flexural Stress <sup>2</sup> 12.5     MPa     ISO 179       Charpy Notched Impact Strength (23°C)     13     Kl/m²     ISO 179/14A       Charpy Unotched Impact Strength (23°C)     14     Kl/m²     ISO 179/14A       Flam Rating     HB     Ul yd     ISO 179/14A       Injection     Nominal Value     IsO 179/14A     IsO 179/14A       Injection     Nominal Value     IsO 179/14A     IsO 179/14A       Injection     Nominal Value     Ul yd     IsO 179/14A       Injection     Nominal Value     Ul yd     IsO 179/14A       Injection<	Forms	Particle		
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Meth Mass-Flow Rate (MFR) (190°C/2.16 kg)     3.0     g/10 min     ISO 1133       Mechanical     Nominal Value     Unit     Test Method       Tensile Modulus     465     MPa     ISO 527-2/1       Tensile Stress (Yield)     7.60     MPa     ISO 527-2/50       Flexural Modulus <sup>1</sup> 335     MPa     ISO 178       Flexural Stress <sup>2</sup> 12.5     MPa     ISO 178       Impact     Nominal Value     Unit     Test Method       Charpy Notched Impact Strength (23°C)     13     K/m²     ISO 179/1eA       Flammability     Nominal Value     K/m²     ISO 179/1eA       Flam Rating     HB     Unit     Test Method       Injection     Nominal Value     Ul 94     Ul 94       Injection     Nominal Value     Unit     Ul 94       Injection     Nominal Value     Unit     Iso 179/1eX       Injection     Nominal Value     Unit     Iso 179/1eX       Injection     Nominal Value     Unit     Iso 179/1eX       Injection     Nominal Value     Injectin     Injecti	Physical	Nominal Value	Unit	Test Method
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MechanicalNominal ValueUnitTest MethodTensile Modulus465MPaISO 527-2/1Tensile Stress (Yield)7.60MPaISO 527-2/50Flexural Modulus <sup>1</sup> 335MPaISO 178Flexural Stress <sup>2</sup> 12.5MPaISO 178ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C)13kJ/m²ISO 179/1eAFlammabilityNominal ValueKJ/m²ISO 179/1eUFlame RatingHBUnitTest MethodInjectionNominal ValueUnitUl 94Drying Temperature100°CLe MethodDrying Time4.0hrLe Method	Melt Mass-Flow Rate (MFR) (190°C/2.16	2.0	110	100 1122
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Flexural Stress 212.5MPaISO 178ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C)13kJ/m²ISO 179/1eACharpy Unnotched Impact Strength (23°C)40kJ/m²ISO 179/1eUFlammabilityNominal ValueTest MethodFlame RatingHBUl 94InjectionNominal ValueUnitDrying Temperature100°CPring Time4.0hr	Tensile Stress (Yield)	7.60	MPa	ISO 527-2/50
ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C)13kJ/m²ISO 179/1eACharpy Unnotched Impact Strength (23°C)40kJ/m²ISO 179/1eUFlammabilityNominal ValueTest MethodFlame RatingHBUnitUL 94InjectionNominal ValueUnitDrying Temperature100°CDrying Time4.0hr	Flexural Modulus <sup>1</sup>	335	MPa	ISO 178
Charpy Notched Impact Strength (23°C)   13   kJ/m²   ISO 179/1eA     Charpy Unnotched Impact Strength (23°C)   40   kJ/m²   ISO 179/1eU     Flammability   Nominal Value   Test Method     Flame Rating   HB   UL 94     Injection   Nominal Value   Unit     Drying Temperature   100   °C     Drying Time   4.0   hr	Flexural Stress <sup>2</sup>	12.5	MPa	ISO 178
Charpy Unnotched Impact Strength (23°C) 40 kJ/m <sup>2</sup> ISO 179/1eU   Flammability Nominal Value Test Method   Flame Rating HB UL 94   Injection Nominal Value Unit   Drying Temperature 100 °C   Drying Time 4.0 hr	Impact	Nominal Value	Unit	Test Method
FlammabilityNominal ValueTest MethodFlame RatingHBUL 94InjectionNominal ValueUnitDrying Temperature100°CDrying Time4.0hr	Charpy Notched Impact Strength (23°C)	13	kJ/m <sup>2</sup>	ISO 179/1eA
Flame RatingHBUL 94InjectionNominal ValueUnitDrying Temperature100°CDrying Time4.0hr	Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	ISO 179/1eU
Injection Nominal Value Unit   Drying Temperature 100 °C   Drying Time 4.0 hr	Flammability	Nominal Value		Test Method
Drying Temperature 100 °C   Drying Time 4.0 hr	Flame Rating	НВ		UL 94
Drying Time 4.0 hr	Injection	Nominal Value	Unit	
	Drying Temperature	100	°C	
Processing (Melt) Temp 150 - 190 °C	Drying Time	4.0	hr	
	Processing (Melt) Temp	150 - 190	°C	

Mold Temperature	30.0 - 50.0	°C		
Injection Rate	Moderate			
Injection instructions				
Holding pressure: 50 to 70% of the injection pressure				
NOTE				
1.	2.0 mm/min			
2.	at Yield			

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#### 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

