Eastar™ GN046

Copolyester

Eastman Chemical Company

Message:

Eastar[™] Copolyester GN046 is a very high melt strength copolyester targeted for extrusion blow molding applications. Blow molding of large parts (up to several pounds) are possible with this material. This product is certified to ANSI/NSF Standard 51.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

The GREENGUARD INDOOR AIR QUALITY CERTIFIED® Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute (GEI). GEI is an industry-independent, non-profit organization that oversees the GREENGUARD Certification Program. The GREENGUARD Certification Program is an industry independent, third-party testing program for low-emitting products and materials for indoor environments. For more information about GEI and to obtain printable certificates for Eastman[™] Copolyesters, visit www.greenguard.org. Choose Eastman Chemical Company under the Manufacturer category and click search to display a list of our products. This product has been CRADLE TO CRADLE CERTIFIED(cm)

The CRADLE TO CRADLE CERTIFIED(cm) Mark is a registered certification mark used under license through McDonough Braungart Design Chemistry (MBDC). MBDC is a global sustainability consulting and product certification firm. The CRADLE TO CRADLE® framework moves beyond the traditional goal of reducing the negative impacts of commerce ('eco-efficiency'), to a new paradigm of increasing its positive impacts ('eco-effectiveness'). At its core, Cradle to Cradle design perceives the safe and productive processes of nature's 'biological metabolism' as a model for developing a 'technical

metabolism' flow of industrial materials. Product components can be designed for continuous recovery and reutilization as biological and technical nutrients within these metabolisms. For more information about MBDC and to obtain printable certificates for Eastman Copolyesters, visit http://www.mbdc.com.

General Information			
UL YellowCard	E118289-220170		
Features	Barrier Resin		
	Excellent Printability		
	Good Chemical Resistance		
	Good Colorability		
	Good Impact Resistance		
	Good Melt Strength		
	Good Stiffness		
	Good Toughness		
	High Clarity		
	High Gloss		
Uses	Blow Molding Applications		
	Bottles		
Agency Ratings	NSF 51		
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.50	%	ASTM D955

HardnessNoninal ValueUnitTest MethodRockwell Hardness (R.Scale, 23°C)108ASTM D638MechanicalNoninal ValueIntTest MethodTensile Strength50.0MPaSTM D638Tensile Strength28.0MPaSTM D638Tensile Lingoption8.0MPaSTM D638Tensile Lingoption4.0%STM D700Break, 23°C10.0%STM D700Break, 23°C10.0%ASTM D700Break, 23°C10.0%ASTM D700Break, 23°C10.0%ASTM D700Break, 23°C10.0%ASTM D700Break, 23°C10.0%ASTM D700Break, 23°C10.0%ASTM D700Break, 23°CNomal ValueInstTest MethodNorthel Lood InpactKartASTM D256StM D256AG*CNo BreakJStM D256AG*CNo BreakJStM D3763AG*CNormal ValueJStM D3763AG*CNormal ValueInstStM D688AG*CNormal ValueInstStM D3763AG*CNormal ValueInstStM D3763AG*CNormal ValueInstStM D3763AG*CNormal ValueInstStM D1023AG*CNormal ValueInstStM D1023AG*CNormal ValueInstStM D1032AG*CNormal ValueInstStM D1032AG*GStM D103				
MechanicalNominal ValueUnitTest MethodTensile Strength\$0.0MPaBreak, 23°C\$0.0MPaBreak, 23°C\$0.0MPaTensile Elongation\$Yield, 23°C4.0\$Break, 23°C100%Break, 23°C6.0MPaBreak, 23°C6.0MPaBreak, 23°C2100MPaBreak, 23°C6.0MPaBreak, 23°C6.0MPaBreak, 23°C3MpaMothod Koll S(3°C)53JrmPaceral Strength (24°C)53JrmASTM D25634Jrm23°C94Jrm23°CNo BreakSTM D363AO°CNo BreakSTM D36323°C, Inergy at Peak Load36.0J23°C, Inergy at Peak Load62.0C046 MPa, Unamealed62.0C045 MPa, Unamealed62.0C18 MB, Unamealed62.0S19 MSSTM D102310 Morinal ValueInit10 ASTM D1023STM D102310 ASTM D1024STM D102310 ASTM D1025ASTM D102310 ASTM D1024S10 ASTM D1024S10 ASTM D1024S </td <td>Hardness</td> <td>Nominal Value</td> <td>Unit</td> <td>Test Method</td>	Hardness	Nominal Value	Unit	Test Method
Tensile StrengthASTM D638Yield, 23°C50.0MPaBreak, 23°C28.0MPaTensile Strengthon	Rockwell Hardness (R-Scale, 23°C)	108		ASTM D785
Yield, 23°C 50.0 MPa Break, 23°C 28.0 MPa Tenalle Bongation XEM D638 Yield, 23°C 4.0 % Break, 23°C 10.0 % Break, 23°C 2100 MPa ASTM D790 Elexard Molus (23°C) 68.0 MPa ASTM D790 Impat Nominal Value Unit Test Method Noticel Ized Impact S3 J/m S55 -40°C S3 J/m S51M D256 -40°C No Break S52 S52 23°C 94 J/m S51M D218 -40°C No Break S5 S52 23°C No Break S5 S53 23°C No Break S5 S53 23°C No Break S5 S53 23°C Nominal Value Unit Test Method Defection Temperature Under Load S60 S6 S67 18 MPa, Unannealed S20 C S51M	Mechanical	Nominal Value	Unit	Test Method
Beak 25°C280MPaTensle ElongationASTM D638Yeld, 23°C4.0%Break 23°C100%Break 23°C100MPaASTM D790Break 23°C6.0MPaASTM D790Break 23°C6.0MPaASTM D790ImpetNomina ValueUnitTest MethodNotched Izod Impact5//n	Tensile Strength			ASTM D638
Tensile ElongationASTM D638Yield, 23°C4.0%Break, 23°C110%Flexural Moduks (23°C)2100MPaASTM D790Break, 23°C68.0MPaASTM D790Break, 23°C68.0MPaASTM D790ImpactNominal ValueMPaMSTM D790Notched Izod Impact53J/mTest MethodASTM D4219MMM23°C94J/mStATM D4218"40°CNo BreakStATM D4218StATM D4218"40°CNo BreakStATM D4218"40°CNo BreakStATM D4218"40°CS5.0JStATM D4218"40°C Energy at Peak Load50.0J35°C, Feregy at Peak Load50.0JStATM D40OtitTest MethodDeflection Temperature Under Load70Test MethodStATM D40S2.0YStATM D425StATM D40S2.0YStATM D425	Yield, 23°C	50.0	MPa	
Yeid, 23°C4.0%Break, 23°C110%Flexural Modulus (23°C)2100MPaASTM D790Flexural Stength (23°C)68.0MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact53//m-40°C53//m23°C94//mUnnotched Izod ImpactNo Break-40°CNo Break23°CNo Break23°CNo Break23°CNo Break-40°C Apergy at Peak Load35.0J23°C, Lengy at Peak Load35.0J23°C, Lengy at Peak Load25.0NoDefection Temperature Under LoadVintTest MethodDefection Temperature Under Load70.0°C1.8 MPa, Unannealed62.0°CNotal MalueUnitTest MethodOpticalNoninal ValueUnitOptical90.0%Cost G0°T83.0°CTransmittanceASTM D253°TransmittanceASTM D254Transmittance%ASTM D254Transmittance%ASTM D254Transmittance%ASTM D254Total80.0%Regular6.0%Nominal ValueUnitTotal6.0%Nominal ValueUnitTotal6.0%	Break, 23°C	28.0	MPa	
Break, 23°C110%Flexural Modulus (23°C)2100MPaASTM D790Rexural Strength (23°C)68.0MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact53J/m40°C53J/m23°C9 0.0J/m40°CNo Break23°CNo Break40°CNo Break23°CNo Break40°CNo Break40°C Energy at Peak Load35.0J23°C Energy at Peak Load36.0J23°C Energy at Peak Load36.0J23°C Energy at Peak Load36.0J24°C Strengy at Peak Load36.0J261Ction Temperature Under Load70°C18 MPa, Unannealed70.0°C18 MPa, Unannealed62.0°C18 MPa, Unannealed152STM D253 °118 MPa, Unannealed162°C16 String TemperatureASTM D10317 TariantitanceSTASTM D10317 Tatal9.0.0%18 MPa, Inanceica6.0% ASTM D10319/ing Time6.0%ASTM D10319/ing Time6.0%ASTM D10319/ing Time6.0%ASTM D10319/ing Time6.0%ASTM D10319/ing Time6.0%ASTM D103 <trr>10/ing Time6.0%<t< td=""><td>Tensile Elongation</td><td></td><td></td><td>ASTM D638</td></t<></trr>	Tensile Elongation			ASTM D638
Flexural Modulus (23°C)2100MPaASTM D790Flexural Strength (23°C)68.0MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact53J/mSTM D25640°C94.0J/mSTM D421823°C0No BreakSTM D4218-40°CNo BreakSTM D421823°CNo BreakSTM D421823°C, Energy at Peak Load35.0J23°C, Energy at Peak Load35.0J23°C, Energy at Peak Load36.0JDeflection Temperature Under Load70°C1.8 MPa, Unannealed70.0°C1.8 MPa, Unannealed62.0°CVicat Softening TemperatureS1.0°C1.8 MPa, Unannealed19.0°C1.9 Cipeling TemperatureS1.0°C1.9 Cipeling TemperatureS1.0°C1.9 Cipeling Temperature6.0%1.9 Cipeling TemperatureS1.0%1.9 Cipeling Temperature6.0%1.9 Cipeling Temperature6	Yield, 23°C	4.0	%	
Flexual Strength (23°C)68.0MPaASTM D790ImpactVoninal ValueUnitTest MethodNotched Izod Impact53J/mSTM D25640°C94J/mSTM D218Unotched Izod ImpactNo BreakSTM D21840°CNo BreakSTM D276323°CNo BreakSTM D27631strumented Dart ImpactS5.0J-40°C, Energy at Peak Load35.0J23°C, Energy at Peak Load66.0J23°C, Energy at Peak Load66.0JPeffetton Temperature Under LoadYoldTest Method045 MPA, Unannealed70.0°CSTM D24571.8 MPA, Unannealed62.0°CSTM D24571.8 MPA, Unannealed152°CASTM D152.51.9 Calside S(60°)152STM D2457STM D24571.7 ramittanceS7.0%CSTM D24571.7 ramittance6.0%ASTM D10331.7 ramittanceS.0%STM D24571.7 ramittanceS.0%STM D24571.7 ramittanceS.0%STM D24571.7 ramittanceS.0%STM D10331.7 ram	Break, 23°C	110	%	
ImpactNominal ValueUnitTest MethodNotched Izod Impact53//m40°C53//m23°C94//mUnnotched Izod ImpactSATM D421840°CNo BreakSATM D421823°CNo BreakSATM D37631strumented Dart ImpactS5.0J23°C, Energy at Peak Load35.0J23°C, Energy at Peak Load35.0JPerfection Temperature Under LoadNoninal ValueUnitDeflection Temperature Under Load70C1.8 MPa, Unannealed62.0°CSATM D425 ¹ 0.45 MPa, UnannealedS10°CSATM D425 ¹ 1.8 MPa, UnannealedS2SATM D426SATM D425 ¹ 1.9 MPa, UnannealedS2°CASTM D425 ¹ 1.9 MPa, UnannealedS2°CSATM D425 ¹ 1.9 MPa, UnannealedS2SATM D426SATM D4261.9 MPa, UnannealedS3SATM D426SATM D4261.9 M	Flexural Modulus (23°C)	2100	MPa	ASTM D790
Notiched Ixod Impact ASTM D256 40°C 53 //m 23°C 94 //m Unnotched Ixod Impact //m //m 40°C No Break //m 23°C No Break //m 140°C No Break //m 23°C No Break //m 140°C (Energy at Peak Load 35.0 J 23°C, Energy at Peak Load 36.0 J Peffection Temperature Under Load J StM D458 0.45 MPa, Unannealed 70.0 C StM D525 ¹ 0.45 MPa, Unannealed 62.0 'C StM D1525 ¹ 0.50 MPa, Unannealed 62.0 'C StM D1525 ¹ 0.50 MPa, Unannealed 62.0 'C StM D1525 ¹ 0.50 Stefning Temperature 83.0 'C ASTM D1525 ¹ 1.5 MPa, Unannealed 9.0 Mait StM D1023 1.6 Tears 6.0 Mait StM D1023 1.6 Tears 6.0 StM D1023 StM D1023	Flexural Strength (23°C)	68.0	MPa	ASTM D790
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Unacted Izod ImpactASTM D421840°CNo Break23°CNo BreakInstrumented Dart ImpactASTM D376340°C, Energy at Peak Load3.023°C, Energy at Peak Load3.023°C, Energy at Peak Load3.010Test Method045 MPa, Unannealed0.0045 MPa, Unannealed6.0045 MPa, Unannealed0.0045 MPa, Unannealed0.0045 MPa, Unannealed0.0050 fc0°15217 atma9.017 atal9.017 atal9.018 Mpa, Unannealed9.019 atal Mathod9.010 atal Mathod9.010 atal Mathod9.017 atal9.017 atal0.010 atal Mathod9.010 atal Matho	-40°C	53	J/m	
-40°C No Break 23°C No Break Instrumented Dart Impact ASTM D3763 -40°C, Energy at Peak Load 35.0 J 23°C, Energy at Peak Load 36.0 J Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 70.0 °C ASTM D648 0.45 MPa, Unannealed 62.0 °C Stormal 0.45 MPa, Unannealed 62.0 °C Stormal 0.46 MPa, Unannealed 83.0 °C ASTM D1525 ¹ 0.50 Gor) 152 ASTM D1525 ¹ Stormal Optical Nominal Value Unit Test Method Gloss (60°) 152 ASTM D1525 ¹ Stormal Traismitance 152.0 % Stormal Stormal Total 90.0 % Stormal Stormal Stormal Injection Nominal Value Molton Molton Stormal Stormal Injection Nominal Value Unit Stormal Stormal Stormal Stormal Stormal Stormal	23°C	94	J/m	
23°CNo BreakInstrumented Dart ImpactASTM D3763-4°C, Energy at Peak Load35.0J23°C, Energy at Peak Load36.0JThermalNomial ValueUnitTest MethodDeflection Temperature Under Load70.0°C0.45 MPa, Unannealed62.0°CSTM D6480.45 MPa, Unannealed83.0°CASTM D1525 ¹ 0.45 MPa, Unannealed83.0°CASTM D1525 ¹ 0.76 Softening Temperature19.2CASTM D1525 ¹ 0.76 Softening Temperature19.2ASTM D1023 ¹ 0.76 Softening Temperature9.0%STM D103317 tatl9.0%STM D103318 per La pe	Unnotched Izod Impact			ASTM D4218
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ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load70.0°C0.45 MPa, Unannealed62.0°C1.8 MPa, Unannealed62.0°CVicat Softening Temperature83.0°COpticalNominal ValueUnitTest MethodGloss (60°)152STM D2457Transmittance90.0%Total90.0%Regular87.0%Haze0.60%InjectionNominal ValueUnitDrying Temperature71.0°CDrying Time6.0hrProcessing (Melt) Temp249 to 271°CNOTEStore°C	-40°C, Energy at Peak Load	35.0	J	
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0.45 MPa, Unannealed70.0°C1.8 MPa, Unannealed62.0°CVicat Softening Temperature83.0°COpticalNominal ValueUnitTest MethodGloss (60°)152STM D2457Transmittance90.0%Total90.0%Regular87.0%InjectionNominal ValueUnitDying Temperature0.60%Dying Temperature71.0°CDying Time6.0hrProcessing (Met) Temp249 to 271°CNOTEKOTE*C	Thermal	Nominal Value	Unit	Test Method
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Vicat Softening Temperature83.0°CASTM D1525 ¹ OpticalNominal ValueUnitTest MethodGloss (60°)152ASTM D2457TransmittanceSASTM D1003Total90.0%SRegular87.0%SHaze0.60%ASTM D1003InjectionNominal ValueUnitDrying Temperature71.0°CProcessing (Melt) Temp249 to 271°CNOTEIntercentS6.0°CNOTES6.0°C	0.45 MPa, Unannealed	70.0	°C	
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Gloss (60°)152ASTM D2457TransmittanceASTM D1003Total90.0%Regular87.0%Haze0.60%InjectionNominal ValueUnitDrying Temperature71.0°CDrying Time6.0hrProcessing (Melt) Temp249 to 271°CMold Temperature16.0 to 38.0°CNOTENOTENOTE	Vicat Softening Temperature	83.0	°C	ASTM D1525 ¹
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Total90.0%Regular87.0%Haze0.60%ASTM D1003InjectionNominal ValueUnitDrying Temperature71.0°CCDrying Time6.0hrCCNodel Temperature249 to 271°CCCNoteIndexton°CCCNote </td <td>Gloss (60°)</td> <td>152</td> <td></td> <td>ASTM D2457</td>	Gloss (60°)	152		ASTM D2457
Regular87.0%Haze0.60%ASTM D1003InjectionNominal ValueUnitCDrying Temperature71.0°CCDrying Time6.0hrCCProcessing (Melt) Temperature249 to 271°CCMold Temperature16.0 to 38.0°CCNOTESSSS	Transmittance			ASTM D1003
Haze0.60%ASTM D1003InjectionNominal ValueUnitDrying Temperature71.0°CDrying Time6.0hrProcessing (Melt) Temp249 to 271°CMold Temperature16.0 to 38.0°CNOTEState State	Total	90.0	%	
InjectionNominal ValueUnitDrying Temperature71.0°CDrying Time6.0hrProcessing (Melt) Tempo249 to 271°CMold Temperature16.0 to 38.0°CNOTE	Regular	87.0	%	
Drying Temperature71.0°CDrying Time6.0hrProcessing (Melt) Temp249 to 271°CMold Temperature16.0 to 38.0°CNOTEVV	Haze	0.60	%	ASTM D1003
Drying Time6.0hrProcessing (Melt) Temp249 to 271°CMold Temperature16.0 to 38.0°CNOTE	Injection	Nominal Value	Unit	
Processing (Melt) Temp249 to 271°CMold Temperature16.0 to 38.0°CNOTEVOTEVOTE	Drying Temperature	71.0	°C	
Mold Temperature 16.0 to 38.0 °C NOTE	Drying Time	6.0	hr	
NOTE	Processing (Melt) Temp	249 to 271	°C	
	Mold Temperature	16.0 to 38.0	°C	
1. Loading 1 (10 N)	NOTE			
	1.	Loading 1 (10 N)		

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