MAXAMID™ PA6G15HSL-BK

Polyamide 6

Pier One Polymers, Inc.

Message:

MAXAMID PA6G15 is available in natural and black, internal and external lubricants, UV stabilized and other modifications. Further information and details are available upon request.

| Filler / Reinforcement Glass fiber reinforced material, 15% filler by weight Additive heat stabilizer Lubricant Lubricant UV stabilizer UV stabilizer Features UV Stabilized Thermal Stability Lubrication Appearance Black Natural color Natural color Forms Particle Processing Method Injection molding Physical Nominal Value Unit Test Method Specific Gravity 1.23 g/cm³ ASTM D792 Ash Content 13 - 17 % ASTM D638 Tensile Elongation (Break, 23°C) 6.0 % ASTM D638 Fiscural Modulus (23°C) 117 MPa ASTM D638 Fiscural Modulus (23°C) 186 MPa ASTM D638 Fiscural Modulus (23°C) 186 MPa ASTM D638 Reckarización Gravity 207 °C ASTM D638 Reckarización Gravity 207 °C ASTM D638 Reckarización Gravity 207 °C ASTM D638 Recharización Gravity < | General Information | | | |
|---|----------------------------------|---|-------|-------------|
| Indicate UbicateInternal StabilizerFeaturesUS Stabilized Thermal Stability LubicationAppearanceBack Natural colorFormsParticleProcessing MethodInjection moldingProtessing Method12Spedific Gravity123Ab Content13-17Spedific Gravity17Aforminal ValueUnitTensile Elongation (Beak, 23°C)Spedific Gravity17Spedific Gravity17Spedific Gravity170Spedific Gravity | Filler / Reinforcement | Glass fiber reinforced material, 15% filler by weight | | |
| PaturesUV StabilizerFeaturesUV StabilizerAppearanceBack Natural colorFormsParticeProcessing MethodParticeProtesInternational MethodPhysicalVind ModeAppearanceInternational MethodSpecific Gravity12Ash Contanto13-17Ash Contanto13-17MethodaManual MethodTensile Elongation (Reak, 23°C)6.0Andratota170AndratotaASTM D428Rearand MethodaManual MethodTensile Elongation (Reak, 23°C)6.0AndratotaSand D4218Rearand MethodaManual MethodaTensile Elongation (Reak, 23°C)6.0Animal ValueManual MethodaRearand MethodaSand D4218Rearand MethodaSand D4218 | Additive | heat stabilizer | | |
| Fatures U Stabilized Thermal Stability Lubrication Appearance Black Natural color Forms Particle Forms Particle Processing Method Injection Specific Gravity Vaninal Value Specific Gravity Info Ash Content 13-17 Methadal Value Tensie Stongth (23°C) I3-10 Normial Value Value Methadal Normial Value Tensie Stongth (23°C) I3-17 Stongtong (13-17) Malonal Castongeno Methadal Normial Value Methadal Informal Stability Tensie Stongth (23°C) I3-17 Machadal Normial Value Tensie Stongth (23°C) I3-17 Machadal Normial Value Tensie Stongth (23°C) I3-17 Machadal Normial Value Tensie Stongth (23°C) I3-17 Machadal Stongton (Break, 23°C) I3-17 Mathodal Stongton (Break, 23°C) I3-10 Mathodal Stongton (Break, 23°C) I3-10 | | Lubricant | | |
| hemal Stability LubicationApearaneBak Nural colorFormsParicleProcessing MethodIncionPhysicalNomial YalonMynaid YalonVin10PapearaneNomial YalonPhysicalNomial YalonPhysicalNomial YalonSpecific Gravity1.3A Content1.91And Content1.91Mynaid YalonMind YalonAftendandMomial YalonMarcial Steingth (25'C)1.91Minal YalonMarcialTeinel Elongation (Break, 23'C)1.91Marcial Steingth (25'C)1.91Mynaid YalonMarcialFinale Steingth (25'C)1.91Minal YalonMarcialTeinel Steingth (25'C)1.91Minal YalonMarcialFinale Steingth (25'C)1.91Minal YalonMarcialFinale Steingth (25'C)1.91Minal YalonMarcialMinal Ya | | UV stabilizer | | |
| hemal Stability LubicationApearaneBak Nutra colorFormsParicleProcessing MethodIncion molingPhysicalNornia VacionApseranceIncion molingPhysicalNornia VacionSpecific Gravity1.3A ContentIncionApseranceIncionMeminal VacionMinal VacionAftendandNornia VacionApseranceIncionSpecific Gravity1.3A ContentIncionAnd ContentIncionMeninal VacionMinal VacionTensie Stength (25'C)InfoInfold Specific GravityInfoAstin ApseranceInfoSpecific GravityInfoInfold Specific GravityInfoInf | | | | |
| LubicationAppearanceBack Nural colorFormsParicleProcessing MethodIncitonProcessing MethodIociton moldingPhysicalNominal ValueIociton MethodSpedific GravityI.3GravinaASTM D792Ash ContentI.3Iociton MethodMethodMethodandMinal ValueIociton MethodMethodMethodandIociton MethodIociton MethodMethodAstonentIociton MethodIociton MethodMethodMethodandIociton MethodIociton MethodMethodFelseright GravityIofMethodMethodInstel Stoneght GravityIofMethodMethodInstel Stoneght GravityIofMethodMethodInstel Stoneght GravityIofMethodMethodInstel Stoneght GravityIofMethodMethodInstel Stoneght GravityIofMethodMethodInstel Stoneght GravityIofIofMethodInstel Stoneght GravityIofIofMethodInstel Stoneght GravityIofIofIofInstel Stoneght Gravity <td>Features</td> <td>UV Stabilized</td> <td></td> <td></td> | Features | UV Stabilized | | |
| AppearanceBlack Natural colorFormsParticeProcessing MethodIneticePhysicalNominal ValueInitPspeife Gravity1.2JordAsh Content1.2JordAsh Content1.3YalueMethaniaalNominal ValueInitTestiel Sterngth (23°C)1.7MandTestiel Sterngth (23°C)1.7MandFilerari Modulus (23°C)5.7MandFilerari Modulus (23°C)1.7MandInstand Standing (23°C)1.7MandInstand Standing (23°C)1.7MandInternet MethodMandMandInternet MethodMandMandInternet MethodMandMandInternet Method1.7MandInternet MethodMandMandInternet MethodSim DiatalateInternet Method <td></td> <td>Thermal Stability</td> <td></td> <td></td> | | Thermal Stability | | |
| Natural colorFormsParticleProcessing MethodInjection moldingPhysicalNominal ValueUnitPhysical123GrandAsh Content13-17% Act MothodMechanicalNominal ValueUnitTensile Strength (23°C)17MPaAftend Digdetion (Break, 23°C)6.0% Act MothodFlexaral Modulus (23°C)170MPaInpact170MPaInpact170MPaInpact170MPaInpact186MPaInpactSim DrugoNominal ValueUnitInpact59JrinNominal ValueUnitNominal ValueUnitNominal ValueJondNominal ValueJondNominal ValueUnitPreside Tomperature Under Load (18) MPa, Unanneeled)20Preside Tomperature20CaSingested Max Moisture20NoSingested Max Moisture20.2NoProcessing (Meth) Temperature22.288No | | Lubrication | | |
| Natural colorFormsParticleProcessing MethodInjection moldingPhysicalNominal ValueUnitPhysical123G/m³Ash Content13-17% Act MothodMechanicalNominal ValueUnitTest MethodTensile Strength (23°C)17MPaASTM D583Tensile Strength (23°C)6.0% ParticleASTM D593Flexural Modulus (23°C)1570MPaASTM D593Flexural Modulus (23°C)166MPaASTM D593InpactNominal ValueUnitTest MethodInpactSoft MathodManoASTM D593InpactSoft MathodManoASTM D563InpactSoft MathodManoASTM D563InpactSoft MathodUnitTest MethodNominal ValueUnitTest MethodPhefetcion Temperature Under Load (18) May UnanneelaelSoft MathodPhefetcion Temperature Under Load (18) May UnanneelaelSoft Mathod <td></td> <td></td> <td></td> <td></td> | | | | |
| FormsParticleProcessing MethodInjection moldingPhysicalNominal ValueUnitPhysical1.23g/cm³Ast M D42183.17%MechanicalNominal ValueUnitMechanicalNominal ValueUnitTessile Strength (23°C)1.17MPaAst M D4218SATM D438Flexral Modulus (23°C)6.0%Flexral Modulus (23°C)1.70MPaInspile Elongation (Break, 23°C)1.70MPaIngactNominal ValueMPaIngactSim Mainal ValueMainal ValueIngactNominal ValueMPaNotched Izod Impact (23°C)1.96MPaNotched Izod Impact (23°C)Sim Mainal ValueUnitMethodSim Mainal ValueUnitPhysical Impact (23°C)Sim Mainal ValueNominal ValuePhysical Impact (23° | Appearance | Black | | |
| Processing MethodInjection moldingPhysicalNominal ValueUnitTest MethodSpecific Gravity1.23g/cm³ASTM D792Ash Content13 - 17% 0ASTM D4218MechanicalNominal ValueUnitTest MethodTensile Strength (23°C)117MPaASTM D638Tensile Elongation (Break, 23°C)6.0MPaASTM D638Flexural Modulus (23°C)5170MPaASTM D790ImpactNominal ValueUnitTest MethodIngactSinomal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D536TermalNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D648Pefection Temperature Under Load (1.8 MPA, Unannealed)207°CASTM D648Peak Melting Temperature20°CASTM D3418Suggested Max Moisture0.20% | | Natural color | | |
| Processing MethodInjection moldingPhysicalNominal ValueUnitTest MethodSpecific Gravity1.23g/cm³ASTM D792Ash Content13 - 17%ASTM D4218MechanicalNominal ValueUnitTest MethodTensile Strength (23°C)117MPaASTM D638Tensile Elongation (Break, 23°C)6.0%ASTM D638Flexural Modulus (23°C)5170MPaASTM D790ImpactNominal ValueUnitTest MethodIngactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D536TermalNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D648Pefection Temperature Under Load (1.8 MPA, Unannealed)207°CASTM D648Peak Melting Temperature20°CASTM D5418InjectionNominal ValueUnitTest MethodSuggested Max Moisture0.2%STM D5418Processing (Melt) Temp32 - 288°CStm D5418 | | | | |
| PhysicalNominal ValueUnitTest MethodSpecific Gravity1.23g/cm³ASTM D792Ash Content13 - 17%ASTM D4218MechanicalNominal ValueUnitTest MethodTensile Strength (23°C)117MPaASTM D638Tensile Elongation (Break, 23°C)6.0%ASTM D638Flexural Modulus (23°C)5170MPaASTM D790Flexural Strength (23°C)186MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (18) MPa, Unannealed)207°CASTM D648Peak Melting Temperature200°CASTM D5418Suggested Max Moisture0.20% | Forms | Particle | | |
| Specific Gravity1.23g/cm³ASTM D792Ash Content13 - 17%ASTM D4218MechanicalNominal ValueUnitTest MethodTensile Strength (23°C)117MPaASTM D638Tensile Elongation (Break, 23°C)6.0%ASTM D638Flexural Modulus (23°C)5170MPaASTM D790ImpactNominal ValueUnitTest MethodIngactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D790ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPA, Unannealed)207°CASTM D648Peak Melting Temperature200°CASTM D5418InjectionNominal ValueUnitTest MethodSuggested Max Moisture0.20%Processing (Melt) Temp232 - 288°C | Processing Method | Injection molding | | |
| Ash Content13 - 17%ASTM D4218MechanicalNominal ValueUnitTest MethodTensile Strength (23°C)117MPaASTM D638Tensile Elongation (Break, 23°C)6.0%ASTM D638Flexural Modulus (23°C)5170MPaASTM D790Flexural Strength (23°C)186MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D256ThermalNominal ValueUnitTest MethodPeffection Temperature Under Load (1.8 MPA, Unannealed)207°CASTM D648Peak Melting Temperature220°CASTM D318InjectionNominal ValueUnitTest MethodSuggested Max Moisture0.20% | Physical | Nominal Value | Unit | Test Method |
| MechanicalNominal ValueUnitTest MethodTensile Strength (23°C)117MPaASTM D638Tensile Elongation (Break, 23°C)6.0%ASTM D638Flexural Modulus (23°C)5170MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D256ThermalNominal ValueUnitTest MethodPeflection Temperature Under Load (1.8) MPa, Unannealed)207°CASTM D648Peak Melting Temperature200°CASTM D5418InjectionNominal ValueUnitSTM D5418Peak Melting Temperature0.20%STM D5418Suggested Max Moisture0.20%STM D5418Processing (Melt) Temp322-288°CStm D256 | Specific Gravity | 1.23 | g/cm³ | ASTM D792 |
| Tensile Strength (23°C)117MPaASTM D638Tensile Elongation (Break, 23°C)6.0%ASTM D638Flexural Modulus (23°C)5170MPaASTM D790Flexural Strength (23°C)186MPaMSTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D256ThermalNominal ValueUnitTest MethodPeflection Temperature Under Load (1.8) MPa, Unannealed)207°CASTM D648Peak Melting TemperatureJoninal ValueUnitASTM D648InjectionNominal ValueUnitMSTM D648InjectionNominal ValueUnitSTM D648Peak Melting Temperature0.20°CMSTM D318Suggested Max Moisture0.20%Stm D548Processing (Melt) Temp232 - 288°CStm D54 | Ash Content | 13 - 17 | % | ASTM D4218 |
| Tensile Elongation (Break, 23°C)6.0%ASTM D638Flexural Modulus (23°C)5170MPaASTM D790Flexural Strength (23°C)186MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)207°CASTM D648Peak Melting Temperature200°CASTM D3418InjectionNominal ValueUnitTest MethodSuggested Max Moisture0.20%SProcessing (Melt) Temperature321 - 288°C | Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus (23°C)5170MPaASTM D790Flexural Strength (23°C)186MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)207°CASTM D648Peak Melting Temperature220°CASTM D3418InjectionNominal ValueUnitTest MethodSuggested Max Moisture0.20%SProcessing (Melt) Temp32 - 288°C | Tensile Strength (23°C) | 117 | МРа | ASTM D638 |
| Flexural Strength (23°C)186MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)207°CASTM D648Peak Melting Temperature200°CASTM D5418InjectionNominal ValueUnitLetter 100Suggested Max Moisture0.20%Sector 100Processing (Melt) Temperature232 - 288°CSector 100 | Tensile Elongation (Break, 23°C) | 6.0 | % | ASTM D638 |
| ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C)59J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPA, Unannealed)207°CASTM D648Peak Melting Temperature200°CASTM D648InjectionNominal ValueUnitTest MethodSuggested Max Moisture0.20% | Flexural Modulus (23°C) | 5170 | МРа | ASTM D790 |
| Notched Izod Impact (23°C)59J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)207°CASTM D648Peak Melting Temperature220°CASTM D648InjectionNominal ValueUnitCSuggested Max Moisture0.20%CProcessing (Melt) Temp232 - 288°C | Flexural Strength (23°C) | 186 | МРа | ASTM D790 |
| ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)207°CASTM D648Peak Melting Temperature220°CASTM D3418InjectionNominal ValueUnitCSuggested Max Moisture0.20%CProcessing (Melt) Temp232 - 288°C | Impact | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)207°CASTM D648Peak Melting Temperature220°CASTM D3418InjectionNominal ValueUnitCSuggested Max Moisture0.20%CProcessing (Melt) Temp232 - 288°C | Notched Izod Impact (23°C) | 59 | J/m | ASTM D256 |
| MPa, Unannealed)207°CASTM D648Peak Melting Temperature220°CASTM D3418InjectionNominal ValueUnitCSuggested Max Moisture0.20%CProcessing (Melt) Temp232 - 288°C | Thermal | Nominal Value | Unit | Test Method |
| Peak Melting Temperature220°CASTM D3418InjectionNominal ValueUnitSuggested Max Moisture0.20%Processing (Melt) Temp232 - 288°C | | 207 | °C | ASTM D648 |
| InjectionNominal ValueUnitSuggested Max Moisture0.20%Processing (Melt) Temp232 - 288°C | Peak Melting Temperature | 220 | °C | ASTM D3418 |
| Processing (Melt) Temp 232 - 288 °C | - | Nominal Value | Unit | |
| | Suggested Max Moisture | 0.20 | % | |
| Mold Temperature 65 - 120 °C | Processing (Melt) Temp | 232 - 288 | °C | |
| | Mold Temperature | 65 - 120 | °C | |

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

