RTP 2300 A UV

Thermoplastic Polyurethane Elastomer (Polyester)

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue' The data for this material has not been recently verified. Please contact RTP Company for current information prior to specifying this grade. -Preliminary Product Data per RTP Co.-

| AdditiveUV StabilizerFeaturesGood UV ResistanceRoHS ComplianceContact ManufacturerAppearanceBlackNatural ColorFormsPelletsProcessing MethodInjection MoldingPhysicalNominal ValueUnitPhysicalNominal ValueModing Shrinkage - Flow (3.18 mm)0.60%MechanicalNominal ValueUnitTensile Modulus1.17%MechanicalNominal ValueUnitTensile Modulus1.380MPaTensile Modulus1.380MPaTensile Isongtion (Break)10%Mothal ValueUnitTest MethodTensile Isongtion (Break)10%Mothal ValueUnitTest MethodTensile Strength44.8MPaASTM D6381720MPaIesural Modulus1720MPaNotched Izod Impact (3.18 mm)1300J/mMothal ValueUnitTest MethodImpactNominal ValueUnitMothal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D64872ASTM D6480.45 Map, Unannealed68.3"C1.76 Map, Unannealed68.3"C1.76 Map, Unannealed66.3"CDrying Time6.0in" | General Information | | | |
|---|------------------------------------|----------------------|-------|-------------|
| RehPS Compliance Contact Manufacturer Appearance Black Natural Color Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Pspecific Gravity 1.20 g/cm ³ Molding Shrinkage - Flow (3.18 mm) 0.60 % Mechanical Nominal Value Unit Mechanical Nominal Value Math D792 Mechanical Nominal Value Unit Test Method Tensile Modulus 1.380 MPa ASTM D593 Tensile Strength 44.8 MPa ASTM D638 Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 1720 MPa ASTM D638 Tensile Strength 65.5 MPa ASTM D638 Impact 1300 J/m ASTM D636 Nornial Value Unit Test Method Notched Izod Impact (3.18 mm) 1300 J/m ASTM D636 Notched Izod Impact (3.18 mm) 1300 J/m ASTM D636 Deflection Temperature Under Load 170 | Additive | UV Stabilizer | | |
| AppearanceBlack Natural ColorFormsPelletsProcessing MethodInjection MoldingPhysicalNominal ValueUnitSpecific Gravity1.20g/cm³Molding Shrinkage - Flow (3.18 mm)0.60%Molding Shrinkage - Flow (3.18 mm)0.60%MotechanicalNominal ValueUnitMechanicalNominal ValueUnitMechanicalNominal ValueUnitTensile Modulus1380MPaTensile Strength44.8MPaASTM D638Tensile Elongation (Break)10%Flexural Modulus1720MPaFlexural Modulus1300J/mImpactNominal ValueUnitNotched Izod Impact (3.18 mm)1300J/mNotched Izod Impact (3.18 mm)1300J/mOptimate ManuelJonJ/mPellection Temperature Under Load79.4°C1.8 MPa, Unannealed68.3°CIngetonNominal ValueUnitDying Temperature107°C | Features | Good UV Resistance | | |
| Natural ColorFormsPelletsProcessing MethodInjection MoldingPhysicalNominal ValueUnitSpecific Gravity1.20g/cm³Molding Shrinkage - Flow (3.18 mm)0.60%Motding Shrinkage - Flow (3.18 mm)0.60%MethanicalNominal ValueUnitMethanicalNominal ValueUnitMethanicalNominal ValueUnitTensile Strength1380MPaTensile Strength10%Flesural Modulus10%Flesural Modulus10%Flesural Strength65.5MPaMatch Izod Impact (3.18 mm)1300J/mNotched Izod Impact (3.18 mm)2100J/mInnetched Izod Impact (3.18 mm)2100J/mOtelfection Temperature Under Load79.4°CInnetched Izod Impact (3.18 mm)68.3°CInstremation79.4°CInternation68.3°CNoting ValueVinitInternation100VinitNoting ValueVinitNominal ValueVinitNominal ValueVinitNominal Value°CNominal ValueVinitNominal ValueVinitNominal ValueVinitNominal ValueVinitNominal ValueVinitNominal ValueVinitNominal ValueVinitNominal ValueVinitNominal ValueVinitNo | RoHS Compliance | Contact Manufacturer | | |
| FormsPelletsProcessing MethodInjection MoldingPhysicalNominal ValueUnitTest MethodSpecific Gravity1.20g/cm³ASTM D792Molding Shrinkage - Flow (3.18 mm)0.60%ASTM D595Water Absorption (23°C, 24 hr)0.17%ASTM D570MechanicalNominal ValueUnitTest MethodTensile Modulus1380MPaASTM D638Tensile Strength44.8MPaASTM D638Tensile Elongation (Break)10%ASTM D638Flexural Modulus102MPaASTM D638Flexural Modulus100%ASTM D638Flexural Modulus100MPaASTM D638Flexural Strength100//mASTM D790InpactNominal ValueUnitTest MethodNotched Izod Inpact (3.18 mm)1300//mASTM D256Unnotched Izod Inpact (3.18 mm)100//mASTM D4812Otsched Izod Inpact (3.18 mm)2100//mASTM D4812Otsched Izod Inpact (3.18 mm)100//mASTM D648Deflection Temperature Under Load68.3"CTest Method1.8 MPa, Unannealed68.3"CTest MethodIngettonNominal ValueUnitTest MethodOrying Temperature100"CTest Method0.45 MPa, Unannealed68.3"CTest Method0.45 MPa, Unannealed68.3"CTest Method0.45 MPa, Unannealed | Appearance | Black | | |
| Processing MethodInjection MoldingPhysicalNominal ValueUnitTest MethodSpecific Gravity1.20g/cm³ASTM D792Molding Shrinkage - Flow (3.18 mm)0.60%ASTM D955Water Absorption (23°C, 24 hr)0.17%ASTM D570MechanicalNominal ValueUnitTest MethodTensile Modulus1380MPaASTM D638Tensile Strength44.8MPaASTM D638Tensile Elongation (Break)10%ASTM D638Flexural Modulus1720MPaASTM D638Flexural Strength65.5MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812Deflection Temperature Under Load79.4°C | | Natural Color | | |
| Processing MethodInjection MoldingPhysicalNominal ValueUnitTest MethodSpecific Gravity1.20g/cm³ASTM D792Molding Shrinkage - Flow (3.18 mm)0.60%ASTM D955Water Absorption (23°C, 24 hr)0.17%ASTM D570MechanicalNominal ValueUnitTest MethodTensile Modulus1380MPaASTM D638Tensile Strength44.8MPaASTM D638Tensile Elongation (Break)10%ASTM D638Flexural Modulus1720MPaASTM D638Flexural Strength65.5MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812Deflection Temperature Under Load79.4°C | | | | |
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| Specific Gravity1.20g/cm³ASTM D792Molding Shrinkage - Flow (3.18 mm)0.60%ASTM D955Water Absorption (23°C, 24 hr)0.17%ASTM D570MechanicalNominal ValueUnitTest MethodTensile Modulus1380MPaASTM D638Tensile Strength44.8MPaASTM D638Tensile Elongation (Break)10%ASTM D638Flexural Modulus1720MPaASTM D790Flexural Strength65.5MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812Deflection Temperature Under Load79.4°CSTM D6480.45 MPa, Unannealed68.3°CIntIngetionNominal ValueUnitIntDeflection Temperature Under Load100°C0.45 MPa, Unannealed107°CIngetionNominal ValueUnitDrying Temperature107°CIngetionNominal ValueIntDrying Temperature107°CIngetionNominal ValueIntIngetionNominal ValueIntIngetionNominal ValueIntIngetionNominal ValueIntIngetionNominal ValueIntIngetionNominal ValueIntIngetionNominal ValueInt | Processing Method | Injection Molding | | |
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| Water Absorption (23°C, 24 hr)0.17%ASTM D570MechanicalNominal ValueUnitTest MethodTensile Modulus1380MPaASTM D638Tensile Strength44.8MPaASTM D638Tensile Elongation (Break)10%ASTM D638Flexural Modulus1720MPaASTM D790Flexural Strength65.5MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812Deflection Temperature Under Load79.4°CSTM D6480.45 MPa, Unannealed68.3°CImage: Comparison (Comparison (Compariso | Specific Gravity | 1.20 | g/cm³ | ASTM D792 |
| MechanicalNominal ValueUnitTest MethodTensile Modulus1380MPaASTM D638Tensile Strength44.8MPaASTM D638Tensile Elongation (Break)10%ASTM D638Flexural Modulus1720MPaASTM D790Flexural Strength65.5MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812Deflection Temperature Under Load79.4°CTest MethodI.8 MPa, Unannealed68.3°CInitInjectionNominal ValueUnitInitDrying Temperature107°CInit | Molding Shrinkage - Flow (3.18 mm) | 0.60 | % | ASTM D955 |
| Tensile Modulus1380MPaASTM D638Tensile Strength44.8MPaASTM D638Tensile Elongation (Break)10%ASTM D638Flexural Modulus1720MPaASTM D790Flexural Strength65.5MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812Deflection Temperature Under Load79.4°CASTM D6480.45 MPa, Unannealed68.3°CImage Content of the second | Water Absorption (23°C, 24 hr) | 0.17 | % | ASTM D570 |
| Tensile Strength44.8MPaASTM D638Tensile Elongation (Break)10%ASTM D638Flexural Modulus1720MPaASTM D790Flexural Strength65.5MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load79.4°CSTM D6481.8 MPa, Unannealed68.3°CInitInjectionNominal ValueUnitInitDrying Temperature107°CInit | Mechanical | Nominal Value | Unit | Test Method |
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| Flexural Modulus1720MPaASTM D790Flexural Strength65.5MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load79.4°CASTM D6480.45 MPa, Unannealed79.4°CImminal ValueUnitInjectionNominal ValueUnitImminal Value0.45 MPa, Unannealed68.3°CImminal ValueInjectionNominal ValueUnitImminal ValueInjectionNominal ValueImminal ValueImminal ValueInjectionNominal ValueImminal ValueImminal ValueInjectionNominal ValueImminal ValueImminal ValueInjectionNominal ValueImminal ValueImminal ValueInjectionNominal ValueImminal | Tensile Strength | 44.8 | MPa | ASTM D638 |
| Flexural Strength 65.5 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 1300 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 2100 J/m ASTM D4812 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 79.4 °C ASTM D648 I.8 MPa, Unannealed 68.3 °C Sector Injection Nominal Value Unit Lease Injection Nominal Value Injection C Lease Injection Nominal Value Unit Lease Lease < | Tensile Elongation (Break) | 10 | % | ASTM D638 |
| ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load79.4°CASTM D6481.8 MPa, Unannealed68.3°CImpactInjectionNominal ValueUnitImpactDrying Temperature107°CImpactOutput107°CImpactDrying Temperature107°C | Flexural Modulus | 1720 | MPa | ASTM D790 |
| Notched Izod Impact (3.18 mm)1300J/mASTM D256Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load79.4°CASTM D6480.45 MPa, Unannealed68.3°CStander Stander Stand | Flexural Strength | 65.5 | MPa | ASTM D790 |
| Unnotched Izod Impact (3.18 mm)2100J/mASTM D4812ThermalNominal ValueUnitTest MethodDeflection Temperature Under LoadASTM D6480.45 MPa, Unannealed79.4°C-1.8 MPa, Unannealed68.3°C-InjectionNominal ValueUnit-Drying Temperature107°C- | Impact | Nominal Value | Unit | Test Method |
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| 0.45 MPa, Unannealed79.4°C1.8 MPa, Unannealed68.3°CInjectionNominal ValueUnitDrying Temperature107°C | Thermal | Nominal Value | Unit | Test Method |
| 1.8 MPa, Unannealed68.3°CInjectionNominal ValueUnitDrying Temperature107°C | Deflection Temperature Under Load | | | ASTM D648 |
| InjectionNominal ValueUnitDrying Temperature107°C | 0.45 MPa, Unannealed | 79.4 | °C | |
| Drying Temperature 107 °C | 1.8 MPa, Unannealed | 68.3 | °C | |
| | Injection | Nominal Value | Unit | |
| Drving Time 6.0 hr | Drying Temperature | 107 | °C | |
| | Drying Time | 6.0 | hr | |
| Suggested Max Moisture 0.010 % | Suggested Max Moisture | 0.010 | % | |
| Suggested Max Regrind 20 % | Suggested Max Regrind | 20 | % | |
| Rear Temperature221 to 249°C | Rear Temperature | 221 to 249 | °C | |

| Middle Temperature | 221 to 249 | °C |
|--------------------|--------------|--------------------|
| Front Temperature | 221 to 249 | °C |
| Nozzle Temperature | 229 to 274 | °C |
| Mold Temperature | 51.7 to 93.3 | °C |
| Injection Pressure | 68.9 to 103 | MPa |
| Clamp Tonnage | 5.5 to 11 | kN/cm ² |

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