TechnoDur PBT 2 black (9995)

Polybutylene Terephthalate

TechnoCompound GmbH

Message:

PBT, injection moulding, unfilled, high viscosity, easy mould realise, for indoor applications

| FormsPelletsProcessing Methodinjection MoldingPhysicalNominal ValueUnitTest MethodDensity1.0g/cm³ISO 1183MethodSo 1182So 1183MethodMethodSo 2012g/cm³ISO 1183MethodNominal ValueUnitTest MethodMeshanicalNominal ValueUnitTest MethodTensile Kress (Yield)60.0MPaISO 527-2/10Tensile Kress (Yield)>6.0MPaISO 527-2/50Yield>6.0%TersileTensile Kress (Yield)>6.0%TersileMethodSo 527-2/50%TersileTensile Kress (Yield)>6.0%TersileMethodSo 527-2/50%TersileYield>6.0%TersileMethodSo 527-2/50%TersileMethodSo 60%TersileMethodSo 60%Tersile </th <th>General Information</th> <th></th> <th></th> <th></th> | General Information | | | |
|---|---|-------------------|-----------|--------------|
| AppearanceBiakFormsPelletsProcessing MethodInjection MoldingPhysicalNominal ValueUnitDensity130grdm ³ Density20.0cm ³ /10minMethodume-Flow Rate (MVR) (250°C/21)Cocm ³ /10minMethodume-Flow Rate (MVR) (250°C/21)CoCoTensile StrainCoSo 527-2/10Tensile StrainSo 507-2/10So 527-2/10YieldSo 60%So 527-2/10YieldSo 100%So 527-2/10Norge State (Motore%So 500So 100 Co% <t< th=""><th>Features</th><th>Good Mold Release</th><th></th><th></th></t<> | Features | Good Mold Release | | |
| Arright of the server | | High Viscosity | | |
| Processing Methodinjection MoldingProcessing MethodNominal ValueUnitTest MethodDensity1.30cm³/10minISO 1183MethodSo 1183cm³/10minISO 1133MethodNominal ValueUnitTest MethodTensile AtterKollMethodMethodTensile Stress (Vield)6.0MPaISO 527-2/1Nersile Stress (Vield)6.0%SS 227-2/1Yeild< 6.0 | Appearance | Black | | |
| PhysicalNominal ValueUnitTest MethodDensity1.30g/cm³ISO 1183Mett Volume-Flow Rate (MVR) (250°C/2.16 kg)20.0cm²/10minISO 1133MechanicalNominal ValueUnitTest MethodTensile Modulus2600MPaISO 527-2/1Tensile Stress (Yield)60.0MPaISO 527-2/50Tensile Strain-ISO 527-2/50Yield> 6.0%-Break> 35%-FlammabilityNominal Value-Test MethodPlamabilityNominal ValueUnit-PlamabilityNominal ValueUnit-Drying Temperature120 to 140%-Drying Temperature0.020%-Drying Temperature240 to 260*C-Notzele From Temperature250 to 260*C-Notzele Temperature250 to 260*C-Nozzele Temperature50 to 85.0*C-Notzele Temperature50 to 85.0*C-Injection Pressure6.00 to 100MPa-Injection RateFastHolding Pressure4.00 to 80.0MPa-Back Pressure1.00 to 3.00MPa- | Forms | Pellets | | |
| Density1.30g/cm²150 1183Meth Volume-Flow Rate (MVR) (250°C/216 (kg)20.0rm²/10minISO 1133MechanicalNominal ValueUnitTest MethodTensile Modulus2600MPaISO 527-2/1Tensile Stress (Yield)6.0.0MPaISO 527-2/50Tensile Strain-ISO 527-2/50Yield> 6.0.0%-Testak> 35%-PlamabilityNominal Value%-FlamabilityNominal ValueUl 94-InjectionNominal ValueUl 94-Drying Temperature120 to 14.0Nr-Drying Temperature20020%-Rear Temperature200 to 4.0Nr-Nozele From Temperature200 to 26.0C-Nozele Temperature50 to 26.0C-Nozele Temperature50 to 26.0C-Nozele Temperature60.0 to 10.0MPa-Injection Rate60.0 to 00.0MPa-Injection Rate40.0 to 80.0MPa-Holding Pressure10.0 to 30.0MPa-Holding Pressure10.0 to 30.0MPa- <td>Processing Method</td> <td>Injection Molding</td> <td></td> <td></td> | Processing Method | Injection Molding | | |
| Network Nominal Value cm ³ /10min IsD 1133 Mechanical Nominal Value Unit Test Method Tensile Modulus 2600 MPa IsD 5527-2/3 Tensile Stress (Yield) 60.0 MPa IsD 5527-2/50 Tensile Strain - IsD 527-2/50 Yield > 6.0 % - Break > 35 % - Flarmability Nominal Value Gest Method Injection Nominal Value UL 94 - Drying Temperature 120 to 140 C - - Suggested Max Moisture 0.020 % - - - - Nordel Temperature 240 to 260 C - </td <td>Physical</td> <td>Nominal Value</td> <td>Unit</td> <td>Test Method</td> | Physical | Nominal Value | Unit | Test Method |
| kg)20.0cm²/10minIsO 133MechanicalNominal ValueUnitTest MethodTensile Modulus2600MPaIsO 527-2/1Tensile Strais6.0MPaIsO 527-2/50Tensile Strain> 5.0%S27-2/50Yield> 6.0%S27-2/50Brak> 35%S27-2/50FlamabilityNominal Value%S27-2/50Flame Rating 0.800 mm)HBUsi 4Usi 4Drying Temperature120 to 140YYDrying Temperature2010 140YS27-2/50Suggested Max Moisture0.020%S27-2/50Midele Temperature2000%S27-2/50Norder Emperature2010 140YYNorder Strain50 to 260YYNorder Emperature250 to 260YYNorder Femperature50 to 260YYNorder Femperature50 to 260YYNorder Strain (Mith) Temperature50 to 260YY </td <td>Density</td> <td>1.30</td> <td>g/cm³</td> <td>ISO 1183</td> | Density | 1.30 | g/cm³ | ISO 1183 |
| Nominal Value Unit Test Method Tensile Modulus 2600 MPa ISO 527-2/1 Tensile Modulus 60.0 MPa ISO 527-2/50 Tensile Strain ISO 527-2/50 ISO 527-2/50 Tensile Strain ISO 527-2/50 ISO 527-2/50 Yield > 6.0 % ISO 527-2/50 Break > 35 % ISO 527-2/50 Flammability Nominal Value % ISO 527-2/50 Flamanability Nominal Value Utit Utit Injection Nominal Value Unit ISO 527-2/50 Drying Temperature 120 to 140 *C ISO 527-2/50 Suggested Max Moisture 0.020 % ISO 100 Middle Temperature 240 to 260 *C ISO 100 Nozzle Temperature 250 to 260 | Melt Volume-Flow Rate (MVR) (250°C/2.16 | | | |
| Tensile Modulus2600MPaISO 527-2/1Tensile Stress (Yield)60.0MPaISO 527-2/50Tensile Strain> 6.0%So 527-2/50Yield> 6.0%So 527-2/50Break> 35%So 527-2/50FlarmabilityNominal ValueTensite StrainUL 94InjectionNominal ValueUL 94Drying Temperature120 to 140°CSo 527-2/50Suggested Max Moisture0.020%So 527-2/50Note Temperature240 to 260°CSo 527-2/50Nozele Temperature240 to 260°CSo 527-2/50Nozele Temperature250 to 260°CSo 527-2/50Nozele Temperature550 to 85.0°CSo 527-2/50Nozele Temperature60.0 to 100MPaSo 527-2/50Mold Temperature60.0 to 100MPaSo 527-2/50Injection RateFastSo 527-2/50So 527-2/50Holding Pressure1.00 to 3.00MPaSo 527-2/50 | kg) | 20.0 | cm³/10min | ISO 1133 |
| Tensile Stresk (Yield)60.0MPaISO 527-2/50Tensile Strain> 60.0%Yield> 60.0%Break> 35%FlarmabilityNominal ValueTest MethodFlarmabilityNominal ValueUL 94InjectionNominal ValueUnitDrying Temperature120 to 140°CDrying Time2.0 to 4.0%Suggested Max Moisture0.020%Q40 to 260°C·CNorder Jemperature240 to 260°CNozzle Temperature240 to 260°CNozzle Temperature550 to 260°CNozzle Temperature50 to 260°CNozle Temperature60.0 to 100MPaInjection Rate60.0 to 100MPaHolding Pressure40.0 to 80.0MPaBack Pressure1.0 to 3.00MPa | Mechanical | Nominal Value | Unit | Test Method |
| Tensile StrainISO 527-2/50Yield> 6.0%Break> 35%FlarmabilityNominal ValueTest MethodFlame Rating (0.800 mm)HBU1 4InjectionNominal ValueUnitDrying Temperature120 to 140°CDrying Time0.020%Suggested Max Moisture0.020%Rear Temperature240 to 260°CMiddle Temperature240 to 260°CNozzle Temperature250 to 260°CNozzle Temperature50 to 260°CNozzle Temperature50 to 260°CNozzle Temperature600 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Tensile Modulus | 2600 | MPa | ISO 527-2/1 |
| Yield> 6.0%Break> 35%FlammabilityNominal ValueTest MethodFlame Rating (0.800 mm)HBUl 94InjectionNominal ValueUnitDrying Temperature120 to 140°CDrying Temperature2.0 to 4.0hrSuggested Max Moisture0.020%Viddle Temperature240 to 260°CMiddle Temperature240 to 260°CNozzle Temperature250 to 260°CNozzle Temperature50 to 260°CNozle Temperature50 to 260°CNotal Temperature50 to 260°CNotal Temperature6.00 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure10.0 to 3.00MPa | Tensile Stress (Yield) | 60.0 | MPa | ISO 527-2/50 |
| Break> 35%FlarmabilityNominal ValueTest MethodFlame Rating (0.800 mm)HBUnitInjectionNominal ValueUnitDrying Temperature120 to 140°CDrying Time0.020%Suggested Max Moisture0.020%Middle Temperature240 to 260°CMiddle Temperature250 to 260°CNozzle Temperature250 to 260°CNozzle Temperature50 to 260°CNozzle Temperature50 to 260°CNozzle Temperature50 to 260°CMidd Temperature60 to 100MPaInjection RateFastSastHolding Pressure400 to 80.0MPaBack Pressure1.00 to 3.00MPa | Tensile Strain | | | ISO 527-2/50 |
| FlammabilityNominal ValueTest MethodFlame Rating (0.800 mm)HBUL 94InjectionNominal ValueUnitDrying Temperature120 to 140°CDrying Time2.0 to 4.0hrSuggested Max Moisture0.020%Rear Temperature240 to 260°CMiddle Temperature240 to 260°CFront Temperature240 to 260°CNozzle Temperature250 to 260°CNozde Temperature550 to 260°CNozde Temperature550 to 260°CMold Temperature60.0 to 100MPaInjection RateFastIntercent of the sourceHolding Pressure60.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Yield | > 6.0 | % | |
| Flame Rating (0.800 mm)HBUL 94InjectionNominal ValueUnitDrying Temperature120 to 140°CDrying Time2.0 to 4.0hrSuggested Max Moisture0.020%Rear Temperature240 to 260°CMiddle Temperature240 to 260°CNozzle Temperature240 to 260°CNozzle Temperature250 to 260°CNozzle Temperature250 to 260°CNozle Temperature50 to 260°CMold Temperature60.0 to 100MPaInjection Pressure60.0 to 100MPaHolding Pressure40.0 to 80.0MPaBack Pressure1.0 to 3.00MPa | Break | > 35 | % | |
| InjectionNominal ValueUnitDrying Temperature120 to 140°CDrying Time2.0 to 4.0hrSuggested Max Moisture0.020%Rear Temperature240 to 260°CMiddle Temperature240 to 260°CFront Temperature240 to 260°CNozzle Temperature240 to 260°CNozzle Temperature250 to 260°CNozzle Temperature250 to 260°CMold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Flammability | Nominal Value | | Test Method |
| Drying Temperature120 to 140°CDrying Time2.0 to 4.0hrSuggested Max Moisture0.020%Rear Temperature240 to 260°CMiddle Temperature240 to 260°CFront Temperature240 to 260°CNozzle Temperature250 to 260°CProcessing (Melt) Temp250 to 260°CMold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure1.00 to 3.00MPa | Flame Rating (0.800 mm) | НВ | | UL 94 |
| Drying Time2.0 to 4.0hrSuggested Max Moisture0.020%Rear Temperature240 to 260°CMiddle Temperature240 to 260°CFront Temperature240 to 260°CNozzle Temperature250 to 260°CNozzle Temperature250 to 260°CMold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Injection | Nominal Value | Unit | |
| Suggested Max Moisture0.020%Rear Temperature240 to 260°CMiddle Temperature240 to 260°CFront Temperature240 to 260°CNozzle Temperature250 to 260°CProcessing (Melt) Temp250 to 260°CMold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Drying Temperature | 120 to 140 | °C | |
| Rear Temperature240 to 260°CMiddle Temperature240 to 260°CFront Temperature240 to 260°CNozzle Temperature250 to 260°CProcessing (Melt) Temp250 to 260°CMold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure1.00 to 80.0MPa | Drying Time | 2.0 to 4.0 | hr | |
| Middle Temperature240 to 260°CFront Temperature240 to 260°CNozzle Temperature250 to 260°CProcessing (Melt) Temp250 to 260°CMold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Suggested Max Moisture | 0.020 | % | |
| Front Temperature240 to 260°CNozzle Temperature250 to 260°CProcessing (Melt) Temp250 to 260°CMold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Rear Temperature | 240 to 260 | °C | |
| Nozzle Temperature250 to 260°CProcessing (Melt) Temp250 to 260°CMold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Middle Temperature | 240 to 260 | °C | |
| Processing (Melt) Temp250 to 260°CMold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Front Temperature | 240 to 260 | °C | |
| Mold Temperature75.0 to 85.0°CInjection Pressure60.0 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Nozzle Temperature | 250 to 260 | °C | |
| Injection Pressure60.0 to 100MPaInjection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Processing (Melt) Temp | 250 to 260 | °C | |
| Injection RateFastHolding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Mold Temperature | 75.0 to 85.0 | °C | |
| Holding Pressure40.0 to 80.0MPaBack Pressure1.00 to 3.00MPa | Injection Pressure | 60.0 to 100 | MPa | |
| Back Pressure 1.00 to 3.00 MPa | Injection Rate | Fast | | |
| | Holding Pressure | 40.0 to 80.0 | MPa | |
| Screw Speed 80 rpm | Back Pressure | 1.00 to 3.00 | MPa | |
| | Screw Speed | 80 | rpm | |

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