# Durethan® BKV 130 CS DUS008 600091

Polyamide 6

LANXESS GmbH

## Message:

PA 6, 30 % glass fibers, injection molding, improved impact strength

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,30% Filler by Weight | | |
| Features | Good Impact Resistance | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density (23°C) | 1.36 | g/cm³ | ISO 1183 |
| Molding Shrinkage | | | ISO 2577 |
| Across Flow : 280°C, 2.00 mm [1] | 0.75 | % | |
| Across Flow : 120°C, 4 hr, 2.00 mm [2] | 0.090 | % | |
| Flow : 280°C, 2.00 mm [3] | 0.25 | % | |
| Flow : 120°C, 4 hr, 2.00 mm [4] | 0.050 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus (23°C) | 9200 | MPa | ISO 527-2/1 |
| Tensile Stress (Break, 23°C) | 145 | MPa | ISO 527-2/5 |
| Tensile Strain (Break, 23°C) | 3.5 | % | ISO 527-2/5 |
| Flexural Modulus [5] (23°C) | 8500 | MPa | ISO 178/A |
| Flexural Stress [6] (23°C) | 245 | MPa | ISO 178/A |
| Flexural Strain at Flexural Strength [7] (23°C) | 3.3 | % | ISO 178/A |
| ISO Shortname | PA 6-HI, GR, 14-100, GF30 | | ISO 1874 |
| Residual Moisture Content | 0.030 to 0.12 | % | Karl Fisher |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -30°C | < 10 | kJ/m² | |
| 23°C | < 10 | kJ/m² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -30°C | 55 | kJ/m² | |
| 23°C | 75 | kJ/m² | |
| Notched Izod Impact Strength | | | ISO 180/1A |
| -30°C | < 10 | kJ/m² | |
| 23°C | 12 | kJ/m² | |
| Unnotched Izod Impact Strength | | | ISO 180/1U |
| -30°C | 60 | kJ/m² | |
| 23°C | 65 | kJ/m² | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Heat Deflection Temperature | | | |
| 0.45 MPa, Unannealed | 210 | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 200 | °C | ISO 75-2/A |
| Melting Temperature [8] | 220 | °C | ISO 11357-3 |
| CLTE | | | ISO 11359-2 |
| Flow : 23 to 55°C | 2.0E-5 | cm/cm/°C | |
| Transverse : 23 to 55°C | 1.1E-4 | cm/cm/°C | |

| Injection | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Drying Temperature - Dry Air Dryer | 80.0 | °C | |
| Drying Time - Dry Air Dryer | 2.0 to 6.0 | hr | |
| Processing (Melt) Temp | 260 to 290 | °C | |
| Mold Temperature | 80.0 to 100 | °C | |

| NOTE | |
|---|---|
| 1. | 60x60x2mm, 80°C MT, 600 bar |
| 2. | 60x60x2mm |
| 3. | 60x60x2mm, 80°C MT, 600 bar |
| 4. | 60x60x2mm |
| 5. | 2.0 mm/min |
| 6. | 2.0 mm/min |
| 7. | 2 mm/min |
| 8. | 10°C/min |



## Recommended distributors for this material

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