

DuPont Performance Polymers Minlon® 12T BKB100 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

Material Notes:

36% Mineral Reinforced Toughened Polyamide 66 Minlon 12T BKB100 is a 36% mineral reinforced toughened heat stabilized black polyamide 66 resin for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Minlon-12T-BKB100-Nylon-66-nbspUnverified-Data.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|---------------------------|---------------------|
| Density | 1.41 g/cc | 0.0509 lb/in ³ | DAM; ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0090 cm/cm | 0.0090 in/in | DAM; ISO 294-4 2577 |
| Linear Mold Shrinkage, Transverse | 0.0090 cm/cm | 0.0090 in/in | DAM; ISO 294-4 2577 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength at Break | 58.0 MPa | 8410 psi | 50%RH; ISO 527-1/-2 |
| | 76.0 MPa | 11000 psi | DAM; ISO 527-1/-2 |
| Elongation at Break | 15 % | 15 % | DAM; ISO 527-1/-2 |
| | 40 % | 40 % | 50%RH; ISO 527-1/-2 |
| Tensile Modulus | 1.80 GPa | 261 ksi | 50%RH; ISO 527-1/-2 |
| | 4.90 GPa | 711 ksi | DAM; ISO 527-1/-2 |
| Flexural Modulus | 1.80 GPa | 261 ksi | 50%RH; ISO 178 |
| | 4.50 GPa | 653 ksi | DAM; ISO 178 |
| Izod Impact, Notched (ISO) | 7.00 kJ/m ² | 3.33 ft-lb/in ² | DAM; ISO 180/1A |
| | 12.0 kJ/m ² | 5.71 ft-lb/in ² | 50%RH; ISO 180/1A |
| | 5.00 kJ/m ² | 2.38 ft-lb/in ² | 50%RH; ISO 180/1A |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 5.00 kJ/m ² | 2.38 ft-lb/in ² | DAM; ISO 180/1A |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 5.50 kJ/m ² | 2.62 ft-lb/in ² | 50%RH; ISO 180/1A |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |

| Mechanical Properties | 6.00 kJ/m ² Metric | 2.86 ft-lb/in ² English | Comments 80/1A |
|------------------------------|----------------------------------|---------------------------------------|--------------------|
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Izod Impact, Unnotched (ISO) | 100 kJ/m ² | 47.6 ft-lb/in ² | DAM; ISO 180/1U |
| | 250 kJ/m ² | 119 ft-lb/in ² | 50%RH; ISO 180/1U |
| | 50.0 kJ/m ² | 23.8 ft-lb/in ² | 50%RH; ISO 180/1U |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| | 60.0 kJ/m ² | 28.6 ft-lb/in ² | DAM; ISO 180/1U |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact Unnotched | 12.0 J/cm ² | 57.1 ft-lb/in ² | DAM; ISO 179/1eU |
| | 25.0 J/cm ² | 119 ft-lb/in ² | 50%RH; ISO 179/1eU |
| | 5.00 J/cm ² | 23.8 ft-lb/in ² | 50%RH; ISO 179/1eU |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| | 6.50 J/cm ² | 30.9 ft-lb/in ² | DAM; ISO 179/1eU |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 0.700 J/cm ² | 3.33 ft-lb/in ² | DAM; ISO 179/1eA |
| | 1.40 J/cm ² | 6.66 ft-lb/in ² | 50%RH; ISO 179/1eA |
| | 0.300 J/cm ² | 1.43 ft-lb/in ² | 50%RH; ISO 179/1eA |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 0.400 J/cm ² | 1.90 ft-lb/in ² | DAM; ISO 179/1eA |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 0.400 J/cm ² | 1.90 ft-lb/in ² | 50%RH; ISO 179/1eA |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| | 0.400 J/cm ² | 1.90 ft-lb/in ² | DAM; ISO 179/1eA |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |

| Thermal Properties | Metric | English | Comments |
|---|--------------|----------------|-------------------------------|
| CTE, linear, Parallel to Flow | 64.0 µm/m-°C | 35.6 µin/in-°F | DAM; ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 65.0 µm/m-°C | 36.1 µin/in-°F | DAM; ISO 11359-1/-2 |
| Melting Point | 256 °C | 493 °F | DAM; 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 205 °C | 401 °F | DAM; ISO 75-1/-2 |

| Thermal Properties <small>Deflection Temperature at 1.8 MPa (204 psi)</small> | Metric | English | Comments 5-1/-2 |
|--|---------------------------|----------------------------|----------------------|
| Flammability, UL94 | HB @Thickness 0.800 mm | HB @Thickness 0.0315 in | DAM; IEC 60695-11-10 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------|---------|----------------|
| Comparative Tracking Index | 400 V | 400 V | DAM; IEC 60112 |

| Descriptive Properties | Value | Comments |
|-------------------------|-----------------------------------|-----------|
| Part Marking Code | >PA66-IMD36< | ISO 11469 |
| Regional Availability | North America | |
| | South and Central America | |
| Resin Identification | PA66-IMD36 | |
| Special Characteristics | Heat stabilised or stable to heat | |

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