

## Lanxess Durethan® BKV 130 GIT DUS008 900116 Nylon 6, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Filled, Impact Grade

### Material Notes:

PA 6, 30% glass fibers, injection molding, impact modified, GIT/WIT Information provided by LANXESS.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-130-GIT-DUS008-900116-Nylon-6-Impact-Modified.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-130-GIT-DUS008-900116-Nylon-6-Impact-Modified.php)

| Physical Properties               | Metric        | English       | Comments                                           |
|-----------------------------------|---------------|---------------|----------------------------------------------------|
| Specific Gravity                  | 1.36 g/cc     | 1.36 g/cc     | ISO 1183                                           |
| Linear Mold Shrinkage, Flow       | 0.00060 cm/cm | 0.00060 in/in | Post-shrinkage, 60x60x2; 120Â°C; 4 hour; ISO 294-4 |
|                                   | 0.0020 cm/cm  | 0.0020 in/in  | 60x60x2; 280Â°C / MT 80Â°C; 600 bar; ISO 294-4     |
| Linear Mold Shrinkage, Transverse | 0.0015 cm/cm  | 0.0015 in/in  | Post-shrinkage, 60x60x2; 120Â°C; 4 hour; ISO 294-4 |
|                                   | 0.0050 cm/cm  | 0.0050 in/in  | 60x60x2; 280Â°C / MT 80Â°C; 600 bar; ISO 294-4     |

| Mechanical Properties     | Metric         | English        | Comments                        |
|---------------------------|----------------|----------------|---------------------------------|
| Tensile Strength at Break | 95.0 MPa       | 13800 psi      | cond.; ISO 527-1, -2; 5 mm/min  |
|                           | 160 MPa        | 23200 psi      | d.a.m.; ISO 527-1, -2; 5 mm/min |
| Elongation at Break       | 3.4 %          | 3.4 %          | d.a.m.; ISO 527-1, -2; 5 mm/min |
|                           | 7.5 %          | 7.5 %          | cond.; ISO 527-1, -2; 5 mm/min  |
| Tensile Modulus           | 5.00 GPa       | 725 ksi        | cond.; ISO 527-1, -2; 1 mm/min  |
|                           | 9.00 GPa       | 1310 ksi       | d.a.m.; ISO 527-1, -2; 1 mm/min |
| Flexural Strength         | 145 MPa        | 21000 psi      | cond., 2 mm/min; ISO 178-A      |
|                           | @Strain 6.30 % | @Strain 6.30 % |                                 |
|                           | 256 MPa        | 37100 psi      | d.a.m., 2 mm/min; ISO 178-A     |
|                           | @Strain 4.10 % | @Strain 4.10 % |                                 |
| Flexural Yield Strength   | 122 MPa        | 17700 psi      | cond., 2 mm/min; ISO 178-A      |
|                           | @Strain 3.50 % | @Strain 3.50 % |                                 |
|                           | 230 MPa        | 33400 psi      | d.a.m., 2 mm/min; ISO 178-A     |
|                           | @Strain 3.50 % | @Strain 3.50 % |                                 |
| Flexural Modulus          | 4.90 GPa       | 711 ksi        | cond., 2 mm/min; ISO 178-A      |

| Mechanical Properties        | Metric <sup>1</sup>       | English <sup>1</sup>      | Comments <sup>1</sup> |
|------------------------------|---------------------------|---------------------------|-----------------------|
| Izod Impact, Notched (ISO)   | 15.0 kJ/mÂ²               | 7.14 ft-lb/inÂ²           | d.a.m.; ISO 180-1A    |
|                              | 15.0 kJ/mÂ²               | 7.14 ft-lb/inÂ²           | cond.; ISO 180-1A     |
| Izod Impact, Unnotched (ISO) | 55.0 kJ/mÂ²               | 26.2 ft-lb/inÂ²           | cond.; ISO 180-1U     |
|                              | @Temperature -30.0<br>Â°C | @Temperature -22.0<br>Â°F |                       |
|                              | 60.0 kJ/mÂ²               | 28.6 ft-lb/inÂ²           | cond.; ISO 180-1U     |
|                              | @Temperature 23.0<br>Â°C  | @Temperature 73.4 Â°F     |                       |
|                              | 60.0 kJ/mÂ²               | 28.6 ft-lb/inÂ²           | d.a.m.; ISO 180-1U    |
|                              | @Temperature -30.0<br>Â°C | @Temperature -22.0<br>Â°F |                       |
|                              | 75.0 kJ/mÂ²               | 35.7 ft-lb/inÂ²           | d.a.m.; ISO 180-1U    |
|                              | @Temperature 23.0<br>Â°C  | @Temperature 73.4 Â°F     |                       |
| Charpy Impact Unnotched      | 6.00 J/cmÂ²               | 28.6 ft-lb/inÂ²           | cond.; ISO 179-1eU    |
|                              | @Temperature -30.0<br>Â°C | @Temperature -22.0<br>Â°F |                       |
|                              | 6.50 J/cmÂ²               | 30.9 ft-lb/inÂ²           | d.a.m.; ISO 179-1eU   |
|                              | @Temperature -30.0<br>Â°C | @Temperature -22.0<br>Â°F |                       |
|                              | 8.50 J/cmÂ²               | 40.4 ft-lb/inÂ²           | d.a.m.; ISO 179-1eU   |
|                              | @Temperature 23.0<br>Â°C  | @Temperature 73.4 Â°F     |                       |
|                              | 8.50 J/cmÂ²               | 40.4 ft-lb/inÂ²           | cond.; ISO 179-1eU    |
|                              | @Temperature 23.0<br>Â°C  | @Temperature 73.4 Â°F     |                       |
| Charpy Impact, Notched       | 1.00 J/cmÂ²               | 4.76 ft-lb/inÂ²           | d.a.m.; ISO 179-1eA   |
|                              | @Temperature -30.0<br>Â°C | @Temperature -22.0<br>Â°F |                       |
|                              | 1.00 J/cmÂ²               | 4.76 ft-lb/inÂ²           | cond.; ISO 179-1eA    |
|                              | @Temperature -30.0<br>Â°C | @Temperature -22.0<br>Â°F |                       |
|                              | 1.50 J/cmÂ²               | 7.14 ft-lb/inÂ²           | d.a.m.; ISO 179-1eA   |
|                              | @Temperature 23.0<br>Â°C  | @Temperature 73.4 Â°F     |                       |
|                              | 2.00 J/cmÂ²               | 9.52 ft-lb/inÂ²           |                       |

| Mechanical Properties | Metric                                              | English                                                | Comments            |
|-----------------------|-----------------------------------------------------|--------------------------------------------------------|---------------------|
|                       | @ Temperature 23.0 Â°C                              | @ Temperature 73.4 Â°F                                 | ISO 1133-1, 179-1eA |
| Puncture Energy       | 2.50 J<br>@Load <=78.5 kg,<br>Temperature -30.0 Â°C | 1.84 ft-lb<br>@Load <=173 lb,<br>Temperature -22.0 Â°F | ISO 6603-2          |
|                       | 3.80 J<br>@Load <=95.3 kg,<br>Temperature 23.0 Â°C  | 2.80 ft-lb<br>@Load <=210 lb,<br>Temperature 73.4 Â°F  | ISO 6603-2          |

| Thermal Properties                             | Metric                                            | English                                            | Comments                   |
|------------------------------------------------|---------------------------------------------------|----------------------------------------------------|----------------------------|
| CTE, linear, Parallel to Flow                  | 20.0 Âµm/m-Â°C<br>@Temperature 23.0 -<br>55.0 Â°C | 11.1 Âµin/in-Â°F<br>@Temperature 73.4 -<br>131 Â°F | ISO 11359-1, -2            |
| CTE, linear, Transverse to Flow                | 90.0 Âµm/m-Â°C<br>@Temperature 23.0 -<br>55.0 Â°C | 50.0 Âµin/in-Â°F<br>@Temperature 73.4 -<br>131 Â°F | ISO 11359-1, -2            |
| Melting Point                                  | 220 Â°C                                           | 428 Â°F                                            | 10Â°C/min; ISO 11357-1, -3 |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 210 Â°C                                           | 410 Â°F                                            | ISO 75-1, -2               |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 195 Â°C                                           | 383 Â°F                                            | ISO 75-1, -2               |
| Vicat Softening Point                          | 200 Â°C<br>@Load 5.10 kg                          | 392 Â°F<br>@Load 11.2 lb                           | 120Â°C/hour; ISO 306       |

| Processing Properties | Metric         | English        | Comments                    |
|-----------------------|----------------|----------------|-----------------------------|
| Melt Temperature      | 260 - 290 Â°C  | 500 - 554 Â°F  |                             |
|                       | 280 Â°C        | 536 Â°F        | for test specimens; ISO 294 |
| Mold Temperature      | 80.0 Â°C       | 176 Â°F        | for test specimens; ISO 294 |
|                       | 80.0 - 100 Â°C | 176 - 212 Â°F  |                             |
| Drying Temperature    | 80.0 Â°C       | 176 Â°F        |                             |
| Dry Time              | 2 - 6 hour     | 2 - 6 hour     |                             |
| Moisture Content      | 0.030 - 0.12 % | 0.030 - 0.12 % | residual; Karl Fischer Test |

| Descriptive Properties | Value                              | Comments |
|------------------------|------------------------------------|----------|
| ISO Shortname          | ISO 1874-PA 6-HI, GR, 14-090, GF30 |          |

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