

## BASF Ultramid® C3U BK23079 PA66/6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Unreinforced

### Material Notes:

Ultramid C3U BK23079 is an injection molding, general purpose PA66/6, pigmented black grade with improved flame retardance.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-C3U-BK23079-PA666-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-C3U-BK23079-PA666-Dry.php)

| Physical Properties                | Metric       | English                   | Comments              |
|------------------------------------|--------------|---------------------------|-----------------------|
| Density                            | 1.16 g/cc    | 0.0419 lb/in <sup>3</sup> | ISO 1183              |
| Water Absorption                   | 8.5 %        | 8.5 %                     | ISO 62                |
| Moisture Absorption at Equilibrium | 2.9 %        | 2.9 %                     | 23°C/50% R.H.; ISO 62 |
| Linear Mold Shrinkage              | 0.0080 cm/cm | 0.0080 in/in              | ASTM Data; MD         |

| Mechanical Properties   | Metric                 | English                    | Comments          |
|-------------------------|------------------------|----------------------------|-------------------|
| Tensile Strength, Yield | 84.0 MPa               | 12200 psi                  | 50mm/min; ISO 527 |
| Elongation at Yield     | 3.7 %                  | 3.7 %                      | 50mm/min; ISO 527 |
| Tensile Modulus         | 3.77 GPa               | 547 ksi                    | 1mm/min; ISO 527  |
| Charpy Impact Unnotched | 6.90 J/cm <sup>2</sup> | 32.8 ft-lb/in <sup>2</sup> | ISO 179           |

| Thermal Properties                          | Metric                       | English                      | Comments  |
|---|------------------------------|------------------------------|-----------|
| CTE, linear                                 | 40.0 μm/m-°C                 | 22.2 μin/in-°F               | ASTM Test |
|   | @Temperature -30.0 - 30.0 °C | @Temperature -22.0 - 86.0 °F |           |
| Melting Point                               | 243 °C                       | 469 °F                       | 10 K/min  |
|   | 243 °C                       | 469 °F                       | ASTM Test |
| Deflection Temperature at 1.8 MPa (264 psi) | 68.0 °C                      | 154 °F                       | ISO 75    |
| Flammability, UL94                          | V-0                          | V-0                          |           |
|   | @Thickness 1.60 mm           | @Thickness 0.0630 in         |           |
|   | V-0                          | V-0                          |           |
|   | @Thickness 0.400 mm          | @Thickness 0.0157 in         |           |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Comparative Tracking Index<br>Electrical Properties | 600 V<br>Metric | 600 V<br>English         | IEC 60112<br>Comments |
|---|-----------------|--------------------------|-----------------------|
| <b>Descriptive Properties</b>                       |                 | <b>Value</b>             | <b>Comments</b>       |
| Color   |                 | BK23079                  |                       |
| Commercial Status                                   |                 | North America and Europe |                       |
| Impact Modified                                     |                 | No                       |                       |
| Primary Processing Technique                        |                 | Injection Molding        |                       |

## Contact Songhan Plastic Technology Co.,Ltd.

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