

Clariant 6618G15 HSL UV Black Nylon 66, 15% Glass Fiber, Impact Modified, UV and Heat Stabilized, Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled , Nylon 66, Glass Reinforced, Impact Grade

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-6618G15-HSL-UV-Black-Nylon-66-15-Glass-Fiber-Impact-Modified-UV-and-Heat-Stabilized-Lubricated.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|-----------------------|------------|
| Specific Gravity | 1.19 g/cc | 1.19 g/cc | ASTM D792 |
| Filler Content | 15 % | 15 % | ASTM D2584 |
| Linear Mold Shrinkage, Flow | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 68.9 MPa | 10000 psi | ASTM D638 |
| Elongation at Yield | 6.0 % | 6.0 % | ASTM D638 |
| Flexural Yield Strength | 103 MPa | 15000 psi | ASTM D790 |
| Flexural Modulus | 2.62 GPa | 380 ksi | ASTM D790 |
| Izod Impact, Notched | 0.694 J/cm @Temperature 22.8 °C | 1.30 ft-lb/in @Temperature 73.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 243 °C | 470 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 227 °C | 441 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 260 - 288 °C | 500 - 550 °F | |
| Middle Barrel Temperature | 260 - 288 °C | 500 - 550 °F | |
| Front Barrel Temperature | 266 - 293 °C | 510 - 560 °F | |
| Nozzle Temperature | 266 - 293 °C | 510 - 560 °F | |
| Melt Temperature | 266 - 288 °C | 510 - 550 °F | |

| Mold Temperature Processing Properties | 54.4 - 82.2 °C Metric | 130 - 180 °F English | Comments |
|---|------------------------------------|-----------------------------------|--|
| Dry Time | 2 - 4 hour @Temperature 79.4 °C | 2 - 4 hour @Temperature 175 °F | to ensure moisture content is less than 0.2% |
| Injection Pressure | 4.96 - 8.27 MPa | 720 - 1200 psi | Secondary |
| | 8.27 - 13.8 MPa | 1200 - 2000 psi | Initial |
| Back Pressure | 0.345 - 0.689 MPa | 50.0 - 100 psi | |
| Shot Size | 30 - 80 % | 30 - 80 % | |
| Screw Speed | 50 - 100 rpm | 50 - 100 rpm | |

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