

Nycal™ 2050R20

Polyamide 612
Technical Polymers, LLC

Message:

Nycal™2050R20 is a polyamide 612 (nylon 6/12) material, and the filler is 20% glass fiber reinforced material. This product is available in North America and is processed by injection molding. Nycal™The main characteristics of 2050R20 are: flame retardant/rated flame.

| General Information | | | |
|--|---|--------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 20% filler by weight | | |
| Appearance | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.21 | g/cm ³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 124 | MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 3.0 | % | ASTM D638 |
| Flexural Modulus (23°C) | 5860 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 186 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 80 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 193 | °C | ASTM D648 |
| Melting Temperature | 218 | °C | DSC |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+13 | ohms · cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |
| Additional Information | | | |
| Tensile Elongation, ASTM D638: 2 to 4%Volum Resistivity, ASTM D257: >1e13 ohm-cm | | | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 73.9 - 79.4 | °C | |
| Drying Time | 2.0 - 4.0 | hr | |
| Processing (Melt) Temp | 260 - 304 | °C | |
| Mold Temperature | 65.6 - 98.9 | °C | |
| Injection Rate | Moderate-Fast | | |
| Back Pressure | 0.103 - 0.689 | MPa | |
| Screw Speed | 50 - 100 | rpm | |
| Clamp Tonnage | 3.4 - 5.5 | kN/cm ² | |
| Cushion | 3.18 - 12.7 | mm | |

| | |
|-------------------------|----------|
| Screw L/D Ratio | 20.0:1.0 |
| Screw Compression Ratio | 2.5:1.0 |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

