

Solvay TECHNYL® B 218L V20 Black 44 N PA66, 25% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Description: Copolyamide 66/6, reinforced with 20% of glass fiber, for injection molding, heat stabilized with improved UV ageing resistance Available in: Asia Pacific and Europe Product Applications: TECHNYL B 218L V20 noir 44 N is used in all sectors of industry, offering an excellent combination of thermal and mechanical properties. This grade is commonly used for automotive applications which require a good surface appearance and a good UV resistance, such as: - external mirror housings and door handles. This product is available in black color. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-B-218L-V20-Black-44-N-PA66-25-glass-fiber-DRY.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|------------|
| Density | 1.29 g/cc | 0.0466 lb/in ³ | ISO 1183/A |
| Water Absorption | 1.2 % @Temperature 23.0 °C, Time 86400 sec | 1.2 % @Temperature 73.4 °F, Time 24.0 hour | ISO 62 |
| Linear Mold Shrinkage | 0.0075 cm/cm | 0.0075 in/in | Isotropy |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm | 0.0060 in/in | |
| Linear Mold Shrinkage, Transverse | 0.0080 cm/cm | 0.0080 in/in | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|-----------------|
| Tensile Strength at Break | 140 MPa | 20300 psi | ISO 527 Type 1A |
| Elongation at Break | 3.0 % | 3.0 % | ISO 527 Type 1A |
| Tensile Modulus | 7.00 GPa | 1020 ksi | ISO 527 Type 1A |
| Flexural Modulus | 5.80 GPa | 841 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 8.00 kJ/m ² | 3.81 ft-lb/in ² | ISO 180/1eA |
| Charpy Impact Unnotched | 4.50 J/cm ² | 21.4 ft-lb/in ² | ISO 179/1eU |
| Charpy Impact, Notched | 0.700 J/cm ² | 3.33 ft-lb/in ² | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|-------------------------------|---|--|-----------|
| CTE, linear, Parallel to Flow | 35.0 Åµm/m-Å°C @Temperature 23.0 - 85.0 Å°C | 19.4 Åµin/in-Å°F @Temperature 73.4 - 185 Å°F | ISO 11359 |

| Melting Point Thermal Properties | 242 Â°C Metric | 468 Â°F English | ISO 11357 Comments |
|--|---------------------------|----------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 230 Â°C | 446 Â°F | ISO 75/ Af |
| Flammability, UL94 | HB @Thickness 0.800 mm | HB @Thickness 0.0315 in | 1210 |
| | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | 1210 |
| Oxygen Index | 23 % | 23 % | ISO 4589 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | IEC 60093 |
| Surface Resistance | 3.00e+13 ohm | 3.00e+13 ohm | IEC 60093 |
| Dielectric Constant | 3.7 | 3.7 | IEC 60250 |
| Dielectric Strength | 32.0 kV/mm | 813 kV/in | IEC 60243 |
| Dissipation Factor | 0.010 | 0.010 | IEC 60250 |
| Comparative Tracking Index | 450 V | 450 V | Solution A; IEC 60112 |

| Processing Properties | Metric | English | Comments |
|--------------------------|----------------|---------------|----------|
| Feed Temperature | 250 - 270 Â°C | 482 - 518 Â°F | |
| Front Barrel Temperature | 270 - 280 Â°C | 518 - 536 Â°F | |
| Mold Temperature | 80.0 - 100 Â°C | 176 - 212 Â°F | |
| Drying Temperature | 80.0 Â°C | 176 Â°F | |
| Moisture Content | <= 0.20 % | <= 0.20 % | |

| Descriptive Properties | Value | Comments |
|------------------------|------------|----------|
| Compression Zone | 260-270Â°C | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China