

Solvay TECHNYLSTAR[®],ç SX 218 V50 BK 38N-K PA6, 50% glass filled, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

Description: High stiffness materials Technylstar polyamide 6, reinforced with 50% of glass fiber, heat stabilized, for injection molding. Characterized by a high fluidity of the melt. Available in: Asia Pacific Product Applications: Due to its outstanding flow characteristics, TECHNYLSTAR SX 218 V50 BLACK 38N-K provides a significant productivity improvement and allows more freedom in mold design and part design versus a standard polyamide solution. This grade is used in automotive and industrial parts, demanding high mechanical strength, good UV resistance and excellent surface aspect. This product is suitable for side mirror base plate, brackets and housings for electrical parts. 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-TECHNYLSTAR-SX-218-V50-BK-38N-K-PA6-50-glass-filled-DRY.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|---------------------------|------------|
| Density | 1.56 g/cc | 0.0564 lb/in ³ | ISO 1183/A |
| Linear Mold Shrinkage, Flow | 0.0025 cm/cm | 0.0025 in/in | |
| Linear Mold Shrinkage, Transverse | 0.0033 cm/cm | 0.0033 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|-----------|
| Hardness, Rockwell R | 121 | 121 | ASTM D786 |
| Tensile Strength, Yield | 220 MPa | 31900 psi | ASTM D638 |
| Elongation at Break | 2.5 % | 2.5 % | ASTM D638 |
| Flexural Strength | 320 MPa | 46400 psi | ASTM D790 |
| Flexural Modulus | 14.0 GPa | 2030 ksi | ASTM D790 |
| Izod Impact, Notched | 1.80 J/cm | 3.37 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|---------------------------|-----------|
| Melting Point | 222 Â°C | 432 Â°F | ISO 11357 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 Â°C | 410 Â°F | ASTM D648 |
| Flammability, UL94 | HB @Thickness 3.20 mm | HB @Thickness 0.126 in | 1210 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|---------------|----------|
| Feed Temperature | 230 - 235 Â°C | 446 - 455 Â°F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|--------------|----------|
| Mold Temperature | 80.0 - 100 °C | 176 - 212 °F | |
| Drying Temperature | 80.0 °C | 176 °F | |
| Moisture Content | <= 0.20 % | <= 0.20 % | |

| Descriptive Properties | Value | Comments |
|------------------------|------------|----------|
| Compression Zone | 235-240 °C | |

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