

# VENYL SFR000 - 3734

Polyamide 6

AD majoris

## Message:

VENYL SFR000 - 3734 is a halogen free flame retardant compounds polyamide 6, UL 94 V2, intended for Injection moulding.

### APPLICATIONS

VENYL SFR000 - 3734 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL SFR000 - 3734 is available in black (VENYL SFR000 - 8229) but other colours can be provided on request.

| General Information                          |                         |                   |             |
|----------------------------------------------|-------------------------|-------------------|-------------|
| Additive                                     | Flame Retardant         |                   |             |
| Features                                     | Flame Retardant         |                   |             |
|                                              | Halogen Free            |                   |             |
|                                              | Recyclable Material     |                   |             |
| Uses                                         | Automotive Applications |                   |             |
|                                              | Electrical Parts        |                   |             |
| Appearance                                   | Black                   |                   |             |
|                                              | Colors Available        |                   |             |
| Forms                                        | Pellets                 |                   |             |
| Processing Method                            | Injection Molding       |                   |             |
| Physical                                     | Nominal Value           | Unit              | Test Method |
| Density                                      | 1.16                    | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                            | 0.90 to 1.2             | %                 |             |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 2.5                     | %                 |             |
| Mechanical                                   | Nominal Value           | Unit              | Test Method |
| Tensile Modulus                              | 3400                    | MPa               | ISO 527-2   |
| Tensile Stress (Break)                       | 82.0                    | MPa               | ISO 527-2   |
| Tensile Strain (Break)                       | 35                      | %                 | ISO 527-2   |
| Flexural Modulus                             | 3100                    | MPa               | ISO 178     |
| Impact                                       | Nominal Value           | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)        | 4.0                     | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                      | Nominal Value           | Unit              | Test Method |
| Heat Deflection Temperature                  |                         |                   |             |
| 0.45 MPa, Unannealed                         | 175                     | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                          | 75.0                    | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)                    | 220                     | °C                | ISO 3146    |
| Electrical                                   | Nominal Value           | Unit              | Test Method |

| Comparative Tracking Index (Solution A) | 600                  | V    | IEC 60112      |
|-----------------------------------------|----------------------|------|----------------|
| Flammability                            | Nominal Value        | Unit | Test Method    |
| Flame Rating (1.60 mm)                  | V-2                  |      | UL 94          |
| Glow Wire Flammability Index (2.00 mm)  | 850                  | °C   | IEC 60695-2-12 |
| Oxygen Index                            | 29                   | %    | ISO 4589-2     |
| Injection                               | Nominal Value        | Unit |                |
| Drying Temperature                      | 80.0                 | °C   |                |
| Drying Time                             | 4.0                  | hr   |                |
| Rear Temperature                        | 235 to 240           | °C   |                |
| Middle Temperature                      | 240 to 250           | °C   |                |
| Front Temperature                       | 250 to 260           | °C   |                |
| Nozzle Temperature                      | 250 to 260           | °C   |                |
| Mold Temperature                        | 80.0 to 100          | °C   |                |
| Injection Pressure                      | 80.0 to 100          | MPa  |                |
| Injection Rate                          | Fast                 |      |                |
| Holding Pressure                        | 50.0 to 70.0         | MPa  |                |
| Screw L/D Ratio                         | 15.0:1.0 to 20.0:1.0 |      |                |

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