

# VENYL UFR003 - 8229

Polyamide 66

AD majoris

## Message:

VENYL UFR003 - 8229 is a halogen free flame retardant compounds polyamide 66 UL 94 V0 intended for Injection moulding.

### APPLICATIONS

VENYL UFR003 - 8229 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL UFR003 - 8229 is available in natural (VENYL UFR003) 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                                   | Colors Available        |                   |             |
|                                              | Natural Color           |                   |             |
| Forms                                        | Pellets                 |                   |             |
| Processing Method                            | Injection Molding       |                   |             |
| Physical                                     | Nominal Value           | Unit              | Test Method |
| Density                                      | 1.18                    | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                            | 1.0 to 1.4              | %                 |             |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 1.8                     | %                 |             |
| Mechanical                                   | Nominal Value           | Unit              | Test Method |
| Tensile Modulus                              | 3300                    | MPa               | ISO 527-2   |
| Tensile Stress (Break)                       | 90.0                    | MPa               | ISO 527-2   |
| Tensile Strain (Break)                       | 11                      | %                 | ISO 527-2   |
| Flexural Modulus                             | 2900                    | MPa               | ISO 178     |
| Impact                                       | Nominal Value           | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)        | 4.5                     | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                      | Nominal Value           | Unit              | Test Method |
| Heat Deflection Temperature                  |                         |                   |             |
| 0.45 MPa, Unannealed                         | 215                     | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                          | 100                     | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)                    | 256                     | °C                | ISO 3146    |
| Electrical                                   | Nominal Value           | Unit              | Test Method |

|                                         |                      |       |                |
|-----------------------------------------|----------------------|-------|----------------|
| Electric Strength (23°C, 1.00 mm)       | 30                   | kV/mm | IEC 60243-1    |
| Comparative Tracking Index (Solution A) | 600                  | V     | IEC 60112      |
| Flammability                            | Nominal Value        | Unit  | Test Method    |
| Flame Rating (1.60 mm)                  | V-0                  |       | UL 94          |
| Glow Wire Flammability Index (2.00 mm)  | 960                  | °C    | IEC 60695-2-12 |
| Oxygen Index                            | 33                   | %     | ISO 4589-2     |
| Injection                               | Nominal Value        | Unit  |                |
| Drying Temperature                      | 80.0                 | °C    |                |
| Drying Time                             | 4.0                  | hr    |                |
| Rear Temperature                        | 270 to 285           | °C    |                |
| Middle Temperature                      | 265 to 280           | °C    |                |
| Front Temperature                       | 260 to 285           | °C    |                |
| Nozzle Temperature                      | 265 to 280           | °C    |                |
| Mold Temperature                        | 80.0 to 100          | °C    |                |
| Injection Pressure                      | 85.0 to 110          | 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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### 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

