

# Arnite® AV2 370 XL

Polyethylene Terephthalate  
DSM Engineering Plastics

Message:

Arnite® AV2 370 XL is a Polyethylene Terephthalate (PET) material filled with 35% glass fiber. It is available in Europe. Primary attribute of Arnite® AV2 370 XL: Flame Rated.

| General Information              |                                  |                   |             |
|----------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement           | Glass Fiber,35% Filler by Weight |                   |             |
| Features                         | Low to No Outgassing             |                   |             |
| Physical                         | Nominal Value                    | Unit              | Test Method |
| Density                          | 1.66                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                |                                  |                   | ISO 294-4   |
| Across Flow                      | 1.0                              | %                 |             |
| Flow                             | 0.50                             | %                 |             |
| Water Absorption                 |                                  |                   | ISO 62      |
| Saturation, 23°C                 | 0.45                             | %                 |             |
| Equilibrium, 23°C, 50% RH        | 0.18                             | %                 |             |
| Mechanical                       | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                  | 13000                            | MPa               | ISO 527-2   |
| Tensile Stress (Break)           | 185                              | MPa               | ISO 527-2   |
| Tensile Strain (Break)           | 2.5                              | %                 | ISO 527-2   |
| Impact                           | Nominal Value                    | Unit              | Test Method |
| Charpy Notched Impact Strength   |                                  |                   | ISO 179/1eA |
| -30°C                            | 8.0                              | kJ/m <sup>2</sup> |             |
| 23°C                             | 9.0                              | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength |                                  |                   | ISO 179/1eU |
| -30°C                            | 60                               | kJ/m <sup>2</sup> |             |
| 23°C                             | 60                               | kJ/m <sup>2</sup> |             |
| Thermal                          | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature      |                                  |                   |             |
| 0.45 MPa, Unannealed             | 250                              | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed              | 225                              | °C                | ISO 75-2/A  |
| Melting Temperature <sup>1</sup> | 255                              | °C                | ISO 11357-3 |
| CLTE                             |                                  |                   | ISO 11359-2 |
| Flow                             | 2.5E-5                           | cm/cm/°C          |             |
| Transverse                       | 4.0E-5                           | cm/cm/°C          |             |
| Electrical                       | Nominal Value                    | Unit              | Test Method |
| Volume Resistivity               | > 1.0E+15                        | ohms · cm         | IEC 60093   |
| Electric Strength                | 33                               | kV/mm             | IEC 60243-1 |

|                             |               |      |                      |
|-----------------------------|---------------|------|----------------------|
| Relative Permittivity       |               |      | IEC 60250            |
| 100 Hz                      | 3.70          |      |                      |
| 1 MHz                       | 3.50          |      |                      |
| Dissipation Factor          |               |      | IEC 60250            |
| 100 Hz                      | 3.0E-3        |      |                      |
| 1 MHz                       | 0.013         |      |                      |
| Comparative Tracking Index  | 250           | V    | IEC 60112            |
| Flammability                | Nominal Value | Unit | Test Method          |
| Flammability Classification |               |      | IEC 60695-11-10, -20 |
| 0.750 mm                    | HB            |      |                      |
| 1.50 mm                     | HB            |      |                      |
| Injection                   | Nominal Value | Unit |                      |
| Drying Temperature          | 100 to 120    | °C   |                      |
| Drying Time                 | 3.0 to 12     | hr   |                      |
| Rear Temperature            | 280 to 300    | °C   |                      |
| Middle Temperature          | 290 to 310    | °C   |                      |
| Front Temperature           | 290 to 310    | °C   |                      |
| Nozzle Temperature          | 290 to 310    | °C   |                      |
| Processing (Melt) Temp      | 290 to 310    | °C   |                      |
| Mold Temperature            | 130 to 140    | °C   |                      |
| Injection Rate              | Moderate-Fast |      |                      |
| Back Pressure               | 3.00 to 10.0  | MPa  |                      |
| Screw Compression Ratio     | 2.5:1.0       |      |                      |
| NOTE                        |               |      |                      |
| 1.                          | 10°C/min      |      |                      |

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

