

# ALTECH® PS A 1000/536 AS WT1113-05

High Impact Polystyrene

ALBIS PLASTIC GmbH

Message:

ALTECH® PS A 1000/536 AS WT1113-05 is a High Impact Polystyrene product. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Typical application: Housings.

Characteristics include:

REACH Compliant

RoHS Compliant

Antistatic

| General Information                               |                      |           |             |
|---------------------------------------------------|----------------------|-----------|-------------|
| Additive                                          | Antistatic           |           |             |
| Features                                          | Antistatic           |           |             |
| Uses                                              | Housings             |           |             |
| Agency Ratings                                    | EC 1907/2006 (REACH) |           |             |
| RoHS Compliance                                   | RoHS Compliant       |           |             |
| Processing Method                                 | Injection Molding    |           |             |
| Physical                                          | Nominal Value        | Unit      | Test Method |
| Density                                           | 1.04                 | g/cm³     | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)        | 17.0                 | cm³/10min | ISO 1133    |
| Mechanical                                        | Nominal Value        | Unit      | Test Method |
| Tensile Modulus                                   | 2200                 | MPa       | ISO 527-2   |
| Tensile Stress                                    |                      |           | ISO 527-2   |
| Break                                             | 16.0                 | MPa       |             |
| --                                                | 24.0                 | MPa       |             |
| Tensile Strain (Break)                            | 11                   | %         | ISO 527-2   |
| Flexural Modulus                                  | 2100                 | MPa       | ISO 178     |
| Flexural Stress                                   | 38.0                 | MPa       | ISO 178     |
| Impact                                            | Nominal Value        | Unit      | Test Method |
| Charpy Notched Impact Strength                    |                      |           | ISO 179/1eA |
| --                                                | 7.0                  | kJ/m²     |             |
| -40°C                                             | 2.0                  | kJ/m²     |             |
| -20°C                                             | 3.0                  | kJ/m²     |             |
| Charpy Unnotched Impact Strength                  |                      |           | ISO 179/1eU |
| --                                                | 70                   | kJ/m²     |             |
| -40°C                                             | 30                   | kJ/m²     |             |
| -20°C                                             | 50                   | kJ/m²     |             |
| Thermal                                           | Nominal Value        | Unit      | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 74.0                 | °C        | ISO 75-2/A  |

| Vicat Softening Temperature | 80.0          | °C   | ISO 306/B50 |
|-----------------------------|---------------|------|-------------|
| Injection                   | Nominal Value | Unit |             |
| Drying Temperature          |               |      |             |
| Circulation Dryer           | 60.0 to 80.0  | °C   |             |
| Desiccant Dryer             | 60.0 to 80.0  | °C   |             |
| Drying Time                 |               |      |             |
| Circulation Dryer           | 2.0 to 3.0    | hr   |             |
| Desiccant Dryer             | 2.0 to 3.0    | hr   |             |
| Processing (Melt) Temp      | 180 to 260    | °C   |             |
| Mold Temperature            | 10.0 to 70.0  | °C   |             |

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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

