

# ABSCOM® F335

Acrylonitrile Butadiene Styrene  
Polymer Compounds Limited

Message:

ABSCOM F335 is an easy flowing injection moulding platable ABS grade with exceptional performance. Typical applications include shower covers and domestic appliance covers.

| General Information                       |                        |                   |              |
|-------------------------------------------|------------------------|-------------------|--------------|
| Features                                  | Good Flow              |                   |              |
|                                           | Platable               |                   |              |
| Uses                                      | Appliance Components   |                   |              |
|                                           | Bathroom Accessories   |                   |              |
| Agency Ratings                            | FDA Unspecified Rating |                   |              |
| Forms                                     | Pellets                |                   |              |
| Processing Method                         | Injection Molding      |                   |              |
| Physical                                  | Nominal Value          | Unit              | Test Method  |
| Density                                   | 1.05                   | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 26                     | g/10 min          | ISO 1133     |
| Molding Shrinkage                         | 0.40 to 0.70           | %                 | ISO 294-4    |
| Water Absorption                          |                        |                   | ISO 62       |
| Saturation, 23°C                          | 1.0                    | %                 |              |
| Equilibrium, 23°C, 50% RH                 | 0.22                   | %                 |              |
| Mechanical                                | Nominal Value          | Unit              | Test Method  |
| Tensile Modulus                           | 2300                   | MPa               | ISO 527-2/1  |
| Tensile Stress                            |                        |                   |              |
| Yield                                     | 45.0                   | MPa               | ISO 527-2/50 |
| Yield, -40°C                              | 63.0                   | MPa               | ISO 527-2    |
| Yield, 80°C                               | 19.0                   | MPa               | ISO 527-2    |
| Tensile Strain                            |                        |                   |              |
| Yield                                     | 2.6                    | %                 | ISO 527-2/50 |
| Yield, -40°C                              | 3.6                    | %                 | ISO 527-2    |
| Yield, 80°C                               | 2.4                    | %                 | ISO 527-2    |
| Break                                     | 10                     | %                 | ISO 527-2    |
| Flexural Stress                           | 65.0                   | MPa               | ISO 178      |
| Impact                                    | Nominal Value          | Unit              | Test Method  |
| Charpy Notched Impact Strength (23°C)     | 22                     | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Charpy Unnotched Impact Strength (23°C)   | No Break               |                   | ISO 179/1eU  |
| Notched Izod Impact Strength (23°C)       | 16                     | kJ/m <sup>2</sup> | ISO 180/1A   |

| Thermal                     | Nominal Value | Unit     | Test Method |
|-----------------------------|---------------|----------|-------------|
| Heat Deflection Temperature |               |          |             |
| 0.45 MPa, Unannealed        | 103           | °C       | ISO 75-2/Be |
| 1.8 MPa, Unannealed         | 99.0          | °C       | ISO 75-2/Ae |
| Vicat Softening Temperature | 96.0          | °C       | ISO 306/B50 |
| CLTE - Flow                 | 9.5E-5        | cm/cm/°C | ISO 11359-2 |
| Flammability                | Nominal Value |          | Test Method |
| Flame Rating                |               |          | UL 94       |
| 0.800 mm                    | HB            |          |             |
| 1.50 mm                     | HB            |          |             |
| Injection                   | Nominal Value | Unit     |             |
| Drying Temperature          | 80.0          | °C       |             |
| Drying Time                 | 2.0 to 4.0    | hr       |             |
| Processing (Melt) Temp      | 250           | °C       |             |
| Mold Temperature            | 60.0          | °C       |             |
| Injection Velocity          | 60            | mm/sec   |             |

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