

Technical Data Sheet



ALCOM CFX ABS 1000 16012 SV1017-16MC

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|----------------------|---|
| Base Polymer | Acrylonitrile/Butadiene/Styrene/Copolymer |
| Colour | metallic effect |
| Application Area | injection moulded parts |
| Typical Applications | housings |

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|-------------------------------|---|
| Pre-Drying Conditions | 80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 3-6 h dependant on moisture content |
| Processing Injection Moulding | melt temperature 220-260 °C mould temperature 50-80 °C |
| Storage | dry, protected from light |

| Properties | Value | Dimension | Test Norm |
|---|-----------|------------------------|-------------|
| Mechanical Properties | | | |
| Flexural Modulus | 2600 | MPa | ISO 178 |
| Flexural Stress (3.5% Strain) | 64 | MPa | ISO 178 |
| Tensile Modulus | 2500 | MPa | ISO 527 |
| Tensile Stress at Yield | 42 | MPa | ISO 527 |
| Tensile Elongation at Yield | 2.2 | % | ISO 527 |
| Tensile Elongation at Break | 18 | % | ISO 527 |
| Impact Strength (Charpy, 23°C) | 50 | kJ/m ² | ISO 179/1eU |
| Impact Strength (Charpy, -40°C) | 40 | kJ/m ² | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 14 | kJ/m ² | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 5 | kJ/m ² | ISO 179/1eA |
| Ball Indentation Hardness H358/30 | 96 | MPa | ISO 2039-1 |
| Thermal Properties | | | |
| Vicat B50 | 93 | °C | ISO 306 |
| HDT / A (1,8 MPa) | 80 | °C | ISO 75-1/-2 |
| Rheological Properties | | | |
| Melt Index (MVR) | 30 | cm ³ /10min | ISO 1133 |
| MVR temperature | 220 | °C | - |
| MVR load | 10 | kg | - |
| Shrinkage (24h) | 0.5 - 0.8 | % | ISO 294-4 |
| Physical Properties | | | |
| Density | 1050 | kg/m ³ | ISO 1183 |