

Technical Data Sheet



ALTECH ABS A 2015/506 GF15

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|------------------------|--|
| Base Polymer | Acrylonitrile/Butadiene/Styrene/Copolymer |
| Filler/Additive System | 15 % glass fibres |
| Special Features | injection moulding grade,processing stabilised |
| Application Area | various,injection moulded parts |

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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 max. moisture content <0,20 % |
| 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 | 4500 | MPa | ISO 178 |
| Flexural Strength | 88 | MPa | ISO 178 |
| Tensile Modulus | 4900 | MPa | ISO 527 |
| Tensile Strength at Break | 60 | MPa | ISO 527 |
| Tensile Elongation at Break | 1.7 | % | ISO 527 |
| Impact Strength (Charpy, 23°C) | 18 | kJ/m ² | ISO 179/1eU |
| Impact Strength (Charpy, -40°C) | 15 | kJ/m ² | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 7 | kJ/m ² | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 5 | kJ/m ² | ISO 179/1eA |
| Ball Indentation Hardness H358/30 | 120 | MPa | ISO 2039-1 |
| Thermal Properties | | | |
| Vicat B50 | 102 | °C | ISO 306 |
| HDT / A (1,8 MPa) | 102 | °C | ISO 75-1/-2 |
| Rheological Properties | | | |
| Melt Index (MVR) | 8 | cm ³ /10min | ISO 1133 |
| MVR temperature | 220 | °C | - |
| MVR load | 10 | kg | - |
| Shrinkage (lengthwise, 24h) | 0.1 - 0.3 | % | ISO 294-4 |
| Shrinkage (lateral, 24h) | 0.1 - 0.3 | % | ISO 294-4 |
| Physical Properties | | | |
| Density | 1140 | kg/m ³ | ISO 1183 |