

Advanced Composites ADX-5001

Polypropylene
Advanced Composites, Inc.

Message:

Advanced Composites ADX-5001 is a polypropylene product, which contains 20% talc filler. It is available in North America. Typical application areas are: automotive industry. The main characteristics are: high liquidity.

| General Information | | | |
|---|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Talc filler, 20% filler by weight | | |
| Features | High liquidity | | |
| Uses | Car interior equipment | | |
| Forms | Particle | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.03 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 29 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 63 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 22.5 | MPa | ASTM D638 |
| Flexural Modulus | 1680 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -30°C | 45 | J/m | ASTM D256 |
| 23°C | 140 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 129 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 65.0 | °C | ASTM D648 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 100 | °C | |
| Drying Time | > 2.0 | hr | |
| Rear Temperature | 204 | °C | |
| Middle Temperature | 218 | °C | |
| Front Temperature | 218 | °C | |
| Nozzle Temperature | 216 | °C | |
| Processing (Melt) Temp | 204 - 232 | °C | |
| Mold Temperature | 48.9 - 60.0 | °C | |
| Cushion | 6.35 - 12.7 | mm | |
| Injection instructions | | | |

Injection Pressure: 10% over max fill pressureHolding Pressure: 50 to 60% of max fill pressureInjection Speed: 1 to 3 inches/secScrew RPM: 1 to 2 secs before mold open

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