

Technical Data Sheet

Alathon H6011



High Density Polyethylene

Product Description

Alathon H6011 provides good processing characteristics, good stiffness, and impact resistance. Typical applications include crates and pallets.

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|--------------------------|---------------------------------|
| Application | Crates; Pallets/Trays/Tote Bins |
| Market | Rigid Packaging |
| Processing Method | Injection Molding |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---|---------------|-------------------|---------------|-------------------|-------------|
| Physical | | | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 12 | g/10 min | 12 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.960 | g/cm ³ | 0.960 | g/cm ³ | ASTM D1505 |
| Mechanical | | | | | |
| Flexural Modulus | | | | | |
| (1% Secant) | 205000 | psi | 1410 | MPa | ASTM D790 |
| (2% Secant) | 171000 | psi | 1180 | MPa | ASTM D790 |
| Flexural Young's Modulus | 231000 | psi | 1590 | MPa | ASTM D790 |
| Tensile Stress at Yield, (23 °C) | 4220 | psi | 29.1 | MPa | ASTM D638 |
| Tensile Elongation at Yield, (23 °C) | 10 | % | 10 | % | ASTM D638 |
| Impact | | | | | |
| Notched Izod Impact Strength, (23 °C) | 0.82 | ft-lb/in | 42 | J/m | ASTM D256 |
| Thermal | | | | | |
| Vicat Softening Temperature | 261 | °F | 127 | °C | ASTM D1525 |
| Deflection Temperature Under Load, (66 psi, Unannealed) | 167 | °F | 75 | °C | ASTM D648 |