

LURAN HH-120

Please Select

TECHNICAL DATASHEET

DESCRIPTION

Luran® HH-120 is a grade of AMSAN with high heat resistance and improved mechanical strength. It is suitable for injection molding and extrusion applications and can be used as a modifier for high heat ABS and PVC.

FEATURES

- Dimensional stability
- Heat resistance
- High surface quality

APPLICATIONS

- Automotive exterior trim : mirror housings, exterior pillars & trims, spoilers

| Property, Test Condition | Standard | Unit | Values |
|---|-------------|-------------------------|--------|
| Rheological Properties | | | |
| Melt Volume Rate 220 °C/10 kg | ISO 1133 | cm ³ /10 min | 7 |
| Mechanical Properties | | | |
| Charpy Notched Impact Strength, 23° C | ISO 179/1eA | kJ/m ² | 2 |
| Charpy Unnotched, 23 °C | ISO 179/1eU | kJ/m ² | 20 |
| Charpy Unnotched, -30 °C | ISO 179/1eU | kJ/m ² | 21 |
| Izod Notched Impact Strength, 23 °C | ISO 180/A | kJ/m ² | 2 |
| Tensile Modulus | ISO 527 | MPa | 3900 |
| Tensile Stress at Yield, 23 °C | ISO 527 | MPa | 79 |
| Tensile Strain at Break, 23 °C | ISO 527 | % | 3 |
| Flexural Modulus, 23 °C | ISO 178 | MPa | 3900 |
| Flexural Strength, 23 °C | ISO 178 | MPa | 135 |
| Hardness, Ball Indentation | ISO 2039-1 | MPa | 175 |
| Thermal Properties | | | |
| Vicat Softening Temperature VST/B/50 (50N, 50 °C/h) | ISO 306 | °C | 120 |
| Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa) | ISO 75 | °C | 104 |
| Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa) | ISO 75 | °C | 110 |
| Coefficient of Linear Thermal Expansion | ISO 11359 | 10 ⁻⁶ /°C | 70 |

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| Thermal Conductivity | ISO 22007-4 | W/(m K) | 0.17 |
| Optical Properties | | | |
| Refractive Index, Sodium D Line | ISO 489 | - | 1.567 |
| Haze | ASTM D 1003 | % | < 1 |
| Light Transmission at 550 nm | ASTM D 1003 | % | > 89 |
| Other Properties | | | |
| Density | ISO 1183 | kg/m ³ | 1080 |
| Moisture Absorption, Equilibrium 23 °C/50% RH | ISO 62 | % | 0.3 |
| Processing | | | |
| Melt Temperature Range | ISO 294 | °C | 220 - 270 |
| Mold Temperature Range | ISO 294 | °C | 40 - 80 |
| Drying Temperature | - | °C | 80 |
| Drying Time | - | h | 2 - 4 |
| Linear Mold Shrinkage | ISO 294-4 | % | 0.3 - 0.7 |