

2200J

High Density Polyethylene

General Information

Description

- ◆ For Injection Molding
- ◆ High stiffness, Fluidity, Good resistance at chemical

Applications

- ◆ Crate, Housewares, Bottle Cap, etc.

| Properties ¹ | | | |
|-------------------------------------|-------------|----------------------------|-----------|
| Physical | Test Method | Nominal Values | |
| Melt Flow Index (190°C, 2.16kg) | ASTM D1238 | 5.0 g/10min | |
| Density | ASTM D1505 | 0.965 g/cm ³ | |
| Mechanical | | | |
| Tensile Stress (Yield) | ASTM D638 | 260 kgf/cm ² | 25.5 MPa |
| Tensile Strain (Break) | ASTM D638 | ≥500 % | |
| Flexural Modulus | ASTM D790 | 13,500 kgf/cm ² | 1,324 MPa |
| Impact | | | |
| Notched IZOD Impact Strength (23°C) | ASTM D256 | 8 kgf·cm/cm | 79 J/m |
| Thermal | | | |
| VICAT Softening Point | ASTM D1525 | 124 °C | |
| Additional | | | |
| ESCR | ASTM D1693 | 4 F ₅₀ hr | |

NOTE

ISO 9001, 14001, /TS 16949

¹ Properties: these are not to be construed as specifications

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| Properties ¹ | | | |
|-------------------------------------|-------------|----------------------------|-----------|
| Physical | Test Method | Nominal Values | |
| Melt Flow Index (190°C, 2.16kg) | ISO 1133 | 5.0 g/10min | |
| Density | ISO 1183 | 0.965 g/cm ³ | |
| Mechanical | | | |
| Tensile Stress (Yield) | ISO 527 | 255 kgf/cm ² | 25.0 MPa |
| Tensile Strain (Break) | ISO 527 | ≥500 % | |
| Flexural Modulus | ISO 178 | 10,197 kgf/cm ² | 1,000 MPa |
| Impact | | | |
| Notched IZOD Impact Strength (23°C) | ISO 180 | 5 kgf·cm/cm | 50 J/m |
| Thermal | | | |
| VICAT Softening Point | ISO 306 | 124 °C | |
| Additional | | | |
| ESCR | ASTM D1693 | 4 F ₅₀ hr | |

NOTE

ISO 9001, 14001, /TS 16949

¹ Properties: these are not to be construed as specifications