

Tenogel® ABS A3 HL CR NTLA010 AB325

Acrylonitrile Butadiene Styrene

Petropol Industry and Trade of Polymers LTDA

Message:

ABS resin for injection into the natural color, general purpose, excellent mechanical and thermal properties. High impact resistance, indicated for cromation combined with high brightness and excellent low temperature performance, and good che

| General Information | | | |
|---|---------------------------|----------|-------------|
| Features | General Purpose | | |
| | Good Chemical Resistance | | |
| | Good Processability | | |
| | High Gloss | | |
| | High Impact Resistance | | |
| | Low Temperature Resistant | | |
| Appearance | Natural Color | | |
| Processing Method | Injection Molding | | |
| Resin ID (ISO 1043) | >ABS< | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.04 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 15 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.40 to 0.60 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.30 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 105 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 41.0 | MPa | |
| 3.20 mm | 40.0 | MPa | |
| Flexural Modulus ¹ | 1960 | MPa | ASTM D790 |
| Flexural Strength ² | 63.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -30°C, 3.20 mm | 160 | J/m | |
| 0°C, 3.20 mm | 230 | J/m | |
| 23°C, 3.20 mm | 310 | J/m | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 91.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 101 | °C | ASTM D1525 |

| Flammability | Nominal Value | Test Method |
|--------------|---------------|-------------|
| Flame Rating | HB | UL 94 |

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 85.0 | °C |
| Drying Time | 3.0 | hr |
| Processing (Melt) Temp | 195 to 230 | °C |
| Mold Temperature | 50.0 to 70.0 | °C |
| Injection Pressure | < 82.7 | MPa |
| Back Pressure | < 0.689 | MPa |

| NOTE | | |
|------|------------|--|
| 1. | 3.0 mm/min | |
| 2. | 3.0 mm/min | |

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