

Lustran 556

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Lustran® 556 is a very low-gloss, medium impact ABS (acrylonitrile butadiene styrene) designed for extrusion/thermoforming applications. It provides a consistent low-gloss appearance in both mono-layer and co-extruded applications.

FEATURES

- Very low gloss
- Medium impact strength
- Ease of coloring
- UL 94 HB rated

APPLICATIONS

- Motor vehicle dashboards
- Interior panels
- Interior trim

| Property, Test Condition | Standard | Unit | Values |
|---|-------------|-----------------------|--------|
| Rheological Properties | | | |
| Melt Flow Rate, 220 °C/10 kg | ASTM D 1238 | g/10 min | 6 |
| Mechanical Properties | | | |
| Izod Notched Impact Strength, 23 °C (73 °F) | ASTM D 256 | ft-lb/in | 2 |
| Izod Notched Impact Strength, -18 °C (0 °F) | ASTM D 256 | ft-lb/in | 1.3 |
| Izod Notched Impact Strength, -40 °C (-40 °F) | ASTM D 256 | ft-lb/in | 1 |
| Instrumented Dart Impact (total energy) | ASTM D 3763 | in-lbs | 264 |
| Instrumented Dart Impact (Peak force) | ASTM D 3763 | in-lbs | 228 |
| Tensile Stress at Break, 23 °C | ASTM D 638 | psi | 3200 |
| Tensile Stress at Yield, 23 °C | ASTM D 638 | psi | 2800 |
| Tensile Modulus | ASTM D 638 | psi x 10 ³ | 220 |
| Flexural Modulus, 23 °C | ASTM D 790 | psi x 10 ³ | 210 |
| Flexural Stress at 5% Deflection | ASTM D 790 | psi | 4500 |
| Thermal Properties | | | |
| DTUL @ 264 psi - Unannealed | ASTM D 648 | °F | 187 |
| DTUL @ 66 psi - Unannealed | ASTM D 648 | °F | 205 |
| Coefficient of Linear Thermal Expansion | ASTM D 696 | 10 ⁻⁴ /°F | 0.54 |
| Other Properties | | | |

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| Density (ASTM) | ASTM D 792 | g/cm ³ | 1.06 |
| Processing | | | |
| Linear Mold Shrinkage | ASTM D 955 | in/in | 0 - 0.01 |
| Drying Temperature | - | °F | 175 |
| Drying Time | - | h | 2 - 4 |