

Argothane® ST-6050

Thermoplastic Polyurethane Elastomer

Argotec LLC

Message:

Applications:

Glass lamination optical interlayer film

Characteristics:

Eliminates need for glass surface primer

Clear, non-yellowing

Contains additive package for UV resistance

| General Information | | | |
|---|----------------------|-------------------|-------------|
| Additive | UV Stabilizer | | |
| Features | Good UV Resistance | | |
| | High Clarity | | |
| Uses | Film | | |
| | Laminates | | |
| | Optical Applications | | |
| Processing Method | Die Molding | | |
| | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.08 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 70 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Break | 44.8 | MPa | |
| 100% Strain | 3.10 | MPa | |
| 200% Strain | 5.24 | MPa | |
| 300% Strain | 12.2 | MPa | |
| Tensile Elongation (Break) | 400 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength | 52.5 | kN/m | ASTM D624 |
| Thermal | Nominal Value | Unit | Test Method |
| Glass Transition Temperature ¹ | -57.0 | °C | DSC |
| CLTE - Flow | 2.0E-4 | cm/cm/°C | ASTM D696 |
| TMA | | | |
| Peak | 106 | °C | |
| Range | 83 to 130 | °C | |

| Optical | Nominal Value | Unit | Test Method |
|------------------|---------------|------|-------------|
| Refractive Index | 1.400 | | ASTM D542 |
| Transmittance | 85.0 to 95.0 | % | ASTM D1003 |
| Haze | < 0.25 | % | ASTM D1003 |
| Yellowness Index | < 1.0 | YI | ASTM D1925 |

NOTE

1. midpoint

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