

Lustran® ABS H801

Acrylonitrile Butadiene Styrene + PC
INEOS ABS (Spain) S.L.



Prospector

Product Description

High heat resistance , PC-modified , low emission , increased flow.

General

| | | | |
|------------------------------|-----------------------------|------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Europe | | |
| Features | • Good Flow | • High Heat Resistance | • Low Emissions |
| Agency Ratings | • EC 1907/2006 (REACH) | | |
| Forms | • Pellets | | |
| Part Marking Code (ISO 2580) | • ABS 2-X, MG, 105-08-25-25 | | |

| Physical | Nominal Value Unit | Test Method |
|---|-----------------------------|-------------|
| Density | 1.07 g/cm ³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 9.00 cm ³ /10min | ISO 1133 |
| Molding Shrinkage ² | | ISO 294-4 |
| Across Flow | 0.50 to 0.70 % | |
| Flow | 0.50 to 0.70 % | |

| Mechanical | Nominal Value Unit | Test Method |
|---------------------------------------|--------------------|--------------|
| Tensile Modulus (23°C) | 2400 MPa | ISO 527-2/1 |
| Tensile Stress (Yield, 23°C) | 49.0 MPa | ISO 527-2/50 |
| Tensile Strain | | ISO 527-2/50 |
| Yield, 23°C | 3.0 % | |
| Break, 23°C | > 15 % | |
| Flexural Modulus ³ (23°C) | 2300 MPa | ISO 178 |
| Flexural Strength ³ (23°C) | 77.0 MPa | ISO 178 |

| Impact | Nominal Value Unit | Test Method |
|----------------------------------|-----------------------|-------------|
| Charpy Notched Impact Strength | | ISO 179/1eA |
| -30°C | 12 kJ/m ² | |
| 23°C | 30 kJ/m ² | |
| Charpy Unnotched Impact Strength | | ISO 179/1eU |
| -30°C | 160 kJ/m ² | |
| 23°C | 220 kJ/m ² | |
| Notched Izod Impact Strength | | ISO 180/1A |
| -30°C | 12 kJ/m ² | |
| 23°C | 30 kJ/m ² | |

| Hardness | Nominal Value Unit | Test Method |
|---------------------------|--------------------|-------------|
| Ball Indentation Hardness | 105 MPa | ISO 2039-1 |

| Thermal | Nominal Value Unit | Test Method |
|-----------------------------|--------------------|-------------|
| Heat Deflection Temperature | | |
| 0.45 MPa, Unannealed | 106 °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 99.0 °C | ISO 75-2/A |
| Vicat Softening Temperature | 105 °C | ISO 306/B50 |
| CLTE - Flow (23 to 55°C) | 0.000080 cm/cm/°C | ISO 11359-2 |

| Electrical | Nominal Value Unit | Test Method |
|---|--------------------|-------------|
| Surface Resistivity | 1.0E+16 ohms | IEC 60093 |
| Volume Resistivity | 1.0E+16 ohm·cm | IEC 60093 |
| Relative Permittivity | | IEC 60250 |
| 23°C, 100 Hz | 3.10 | |
| 23°C, 1 MHz | 3.00 | |
| Dissipation Factor | | IEC 60250 |
| 23°C, 100 Hz | 0.0050 | |
| 23°C, 1 MHz | 0.0090 | |
| Comparative Tracking Index (Solution A) | 600 V | IEC 60112 |
| Electric Strength (23°C) | 38 kV/mm | IEC 60243-1 |

| Flammability | Nominal Value Unit | Test Method |
|--|--------------------|----------------|
| Burning Rate ⁴ (2.00 mm) | 45 mm/min | ISO 3795 |
| Glow Wire Flammability Index (2.00 mm) | 700 °C | IEC 60695-2-12 |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60x60x2

³ 2.0 mm/min

⁴ US - FMVSS

Revision History

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