

Elix ABS H604

ABS

Elix Polymers, S.L.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 9 | cm ³ /10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| Molding shrinkage, parallel | 0.6 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.6 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 2400 | MPa | ISO 527 |
| Yield stress | 45 | MPa | ISO 527 |
| Yield strain | 2.6 | % | ISO 527 |
| Strain at break | 15 | % | ISO 527 |
| Flexural modulus, 23°C | 2400 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 130 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | 100 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 20 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 11 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 21 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 12 | kJ/m ² | ISO 180/1A |
| Temperature | -30 | °C | - |
| Ball indentation hardness | 102 | MPa | ISO 2039-1 |

| Thermal properties | Value | Unit | Test Standard |
|---|--------------|-------------|----------------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 98 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 102 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 99 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 80 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Burning behav. at thickness h | HB | class | IEC 60695-11-10 |
| Thickness tested | 3.0 | mm | - |

| Electrical properties | Value | Unit | Test Standard |
|------------------------------|--------------|-------------|----------------------|
| ISO Data | | | |
| Relative permittivity, 100Hz | 3 | - | IEC 62631-2-1 |
| Relative permittivity, 1MHz | 2.9 | - | IEC 62631-2-1 |
| Dissipation factor, 100Hz | 50 | E-4 | IEC 62631-2-1 |
| Dissipation factor, 1MHz | 90 | E-4 | IEC 62631-2-1 |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |
| Electric strength | 31 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 | - | IEC 60112 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 1040 | kg/m ³ | ISO 1183 |

| Test specimen production | Value | Unit | Test Standard |
|---------------------------------------|--------------|-------------|----------------------|
| ISO Data | | | |
| Injection Molding, melt temperature | 240 | °C | ISO 294 |
| Injection Molding, mold temperature | 70 | °C | ISO 294 |
| Injection Molding, injection velocity | 240 | mm/s | ISO 294 |

Characteristics

Elix ABS H604

ABS

Elix Polymers, S.L.

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance

Certifications

RoHS compliant

Regional Availability

Europe, Asia Pacific, South and Central America, Near East/Africa