

Product Texts

XHT4143 is a high flow, UV stabilized, high heat polycarbonate copolymer blend with an HDT/Af of 162C. It is available in a range of opaque and limited transparent colors.

UL Yellow Card Link [E45329-100321029](https://www.ul.com/yellow-card/E45329-100321029)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 24 | cm ³ /10min | ISO 1133 |
| Temperature | 330 | °C | - |
| Load | 2.16 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 25 | g/10min | ASTM D 1238 |
| Temperature | 330 | °C | - |
| Load | 2.16 | kg | - |
| Mechanical properties | | | |
| ISO Data | | | |
| Tensile Modulus | 2750 | MPa | ISO 527 |
| Yield stress | 78 | MPa | ISO 527 |
| Yield strain | 7 | % | ISO 527 |
| Stress at break | 67 | MPa | ISO 527 |
| Strain at break | 50 | % | ISO 527 |
| Flexural modulus | 2600 | MPa | ISO 178 |
| Charpy impact strength, +23°C, 3mm | N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C, 3mm | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C, 3mm | 11 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C, 3mm | 9 | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 3mm | 10 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C, 3mm | 8 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 2730 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 77 | MPa | ASTM D 638 |
| Tensile Strength at Break | 69 | MPa | ASTM D 638 |
| Elongation at Yield | 7 | % | ASTM D 638 |
| Elongation at Break | 50 | % | ASTM D 638 |
| Flexural Modulus | 2600 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 93 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 76 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |
| Thermal properties | | | |
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 162 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 173 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 183 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 181 | °C | ISO 306 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Glow Wire Flammability Index (GWFI) | 960 | °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (GWIT) | 875 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (3) | 3 | mm | - |
| ASTM Data | | | |
| DTUL @ 66 psi | 174 | °C | ASTM D 648 |
| DTUL @ 264 psi | 165 | °C | ASTM D 648 |
| Vicat Temperature | 183 | °C | ASTM D 1525 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Water absorption | 0.33 | % | Sim. to ISO 62 |
| Humidity absorption | 0.25 | % | Sim. to ISO 62 |
| Density | 1210 | kg/m ³ | ISO 1183 |
| Density | 1200 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 135 | °C | - |
| Pre-drying - Time | 4 - 6 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 300 - 315 | °C | - |
| Mold temperature | 95 - 130 | °C | - |
| Zone 1 | 280 - 295 | °C | - |
| Zone 2 | 290 - 305 | °C | - |
| Zone 3 | 300 - 315 | °C | - |
| Screw speed | 40 - 90 | rpm | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics**Processing**

Injection Molding

Applications

Automotive

Special Characteristics

Transparent

Regional Availability

Europe