

**Product Texts**

XHT2143 is a high flow, UV stabilized, high heat polycarbonate copolymer with an HDT/Af of 142 C. It is available in a range of opaque and limited transparent colors.

UL Yellow Card Link [E207780-100321024](https://www.ulprospector.com/PC/Products/207780-100321024)

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	<b>43</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>330</b>	°C	-
Load	<b>2.16</b>	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>46</b>	g/10min	ASTM D 1238
Temperature	<b>330</b>	°C	-
Load	<b>2.16</b>	kg	-
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>2600</b>	MPa	ISO 527
Yield stress	<b>70</b>	MPa	ISO 527
Yield strain	<b>6.5</b>	%	ISO 527
Stress at break	<b>60</b>	MPa	ISO 527
Strain at break	<b>50</b>	%	ISO 527
Flexural modulus	<b>2450</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>20</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	<b>11</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	<b>10</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	<b>2600</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>70</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>60</b>	MPa	ASTM D 638
Elongation at Yield	<b>6.5</b>	%	ASTM D 638
Elongation at Break	<b>90</b>	%	ASTM D 638
Flexural Modulus	<b>2550</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>115</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>75</b>	J/m	ASTM D 256
Temperature	<b>-30</b>	°C	-
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>142</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>160</b>	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	<b>162</b>	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	-
Glow Wire Flammability Index (GWFI)	<b>960</b>	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	<b>875</b>	°C	IEC 60695-2-13
GWIT - thickness tested (3)	<b>3</b>	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>155</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>145</b>	°C	ASTM D 648
Vicat Temperature	<b>161</b>	°C	ASTM D 1525
<b>Other properties</b>			
Water absorption	<b>0.3</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.23</b>	%	Sim. to ISO 62
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1200</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>135</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>290 - 330</b>	°C	-
Mold temperature	<b>85 - 130</b>	°C	-
Zone 1	<b>270 - 310</b>	°C	-
Zone 2	<b>280 - 320</b>	°C	-
Zone 3	<b>290 - 330</b>	°C	-
Screw speed	<b>40 - 90</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Applications**

Automotive

**Special Characteristics**

Transparent

**Regional Availability**

Asia Pacific