

Product Texts

XHT4141 is a high flow, high heat polycarbonate copolymer. It is available in a range of opaque and limited transparent colors.

UL Yellow Card Link [E121562-100025116](https://www.ul.com/yellowcard/E121562-100025116)

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	Value	Unit	Test Standard
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	Value	Unit	Test Standard
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. thckn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
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GWIT - thickness tested (1)	1	mm	-
GWIT - thickness tested (2)	2	mm	-
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

Thermal Conductivity, solid state	0.0288	W/(m K)	ASTM C 177
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Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Constant, 1 MHz	3.02	-	ASTM D 150
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water absorption	0.5	%	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 - 345	°C	-
Mold temperature	95 - 130	°C	-
Zone 1	280 - 325	°C	-
Zone 2	290 - 335	°C	-
Zone 3	300 - 345	°C	-
Screw speed	40 - 90	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Special Characteristics

Transparent

Regional Availability

North America