

Product Texts

XHT2146 resin is a high flow, high heat polycarbonate copolymer with improved release performance compared to LEXAN XHT2141 resin. It is available in a range of opaque and limited transparent colors.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	43	cm ³ /10min	ISO 1133
Temperature	330	°C	-
Load	2.16	kg	-
ASTM Data			
Melt Flow Index, MFI	46	g/10min	ASTM D 1238
Temperature	330	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2600	MPa	ISO 527
Yield stress	70	MPa	ISO 527
Yield strain	6.5	%	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2450	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	20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, +23°C, 3mm	12	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, 4mm	11	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A
Izod notched impact strength, +23°C, 3mm	10	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2600	MPa	ASTM D 638
Tensile Strength at Yield	70	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	6.5	%	ASTM D 638
Elongation at Break	90	%	ASTM D 638
Flexural Modulus	2550	MPa	ASTM D 790
Izod Impact notched, 1/8 in	115	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	75	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	142	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	155	°C	ISO 75-1/-2
Vicat softening temperature, B	160	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	162	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	155	°C	ASTM D 648
DTUL @ 264 psi	145	°C	ASTM D 648
Vicat Temperature	161	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.23	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	125	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	290 - 350	°C	-
Mold temperature	85 - 130	°C	-
Zone 1	270 - 330	°C	-
Zone 2	280 - 340	°C	-
Zone 3	290 - 350	°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