

Product Texts

NORYL PPX™ 7200U resin is a non-reinforced alloy of polyphenylene ether (PPE) + polypropylene (PP). This UV-stabilized, injection moldable grade exhibits improved chemical resistance and surface aesthetics along with high-temperature performance, excellent melt strength, modulus, impact resistance, hydrolytic and dimensional stability. NORYL PPX7200U resin is an excellent candidate for applications such as hot water tank components and outdoor housings and enclosures.

UL Yellow Card Link [E121562-256210](https://www.ul.com/yellow-card/E121562-256210)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	18	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	16	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1670	MPa	ISO 527
Yield stress	34	MPa	ISO 527
Yield strain	8.2	%	ISO 527
Stress at break	28	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	1600	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	80	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	6	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	1240	MPa	ASTM D 638
Tensile Strength at Yield	33	MPa	ASTM D 638
Tensile Strength at Break	27	MPa	ASTM D 638
Elongation at Yield	10	%	ASTM D 638
Elongation at Break	130	%	ASTM D 638
Flexural Modulus	1440	MPa	ASTM D 790
Izod Impact notched, 1/8 in	149	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1440	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	103	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	107	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	110	°C	ASTM D 648
DTUL @ 264 psi	71	°C	ASTM D 648
Vicat Temperature	146	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	990	kg/m ³	ISO 1183
Density	990	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	60 - 65	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	260 - 290	°C	-
Mold temperature	30 - 50	°C	-
Zone 1	225 - 275	°C	-
Zone 2	240 - 280	°C	-
Zone 3	250 - 290	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America

Chemical Resistance

General Chemical Resistance