

Product Texts

NORYL PPX™ 7115 resin is a non-reinforced alloy of polyphenylene ether (PPE) + polypropylene (PP). This injection moldable grade exhibits high modulus, high-temperature performance, excellent melt strength, impact resistance, hydrolytic and dimensional stability. NORYL PPX7115 resin is an excellent candidate for applications requiring high modulus and chemical resistance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	12	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
Thermal conductivity of melt	0.21	W/(m K)	-
Spec. heat capacity of melt	2300	J/(kg K)	-
Ejection temperature	142	°C	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1370	MPa	ISO 527
Yield stress	35	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	31	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	1520	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	37	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	36	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A
Rockwell hardness	R 60	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	80	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	85	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70.7	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	101	E-6/K	ISO 11359-1/-2

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

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	40 - 60	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	225 - 275	°C	-
Zone 2	240 - 285	°C	-
Zone 3	250 - 290	°C	-

Characteristics

Processing
Injection Molding

Regional Availability
Europe