

Product Texts

NORYL™ CRX1005 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable and extrusion grade was developed with improved chemical resistance and exhibits low moisture absorption, creep resistance, dimensional stability, and hydrolytic stability.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	6	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1750	MPa	ISO 527
Yield stress	35	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	35	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	1800	MPa	ISO 178
Izod impact strength, +23°C, 4mm	50	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	50	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	21	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	16	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	95	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	105	°C	ISO 75-1/-2
Vicat softening temperature, 120°C/h 50N	110	°C	ISO 306

Other properties	Value	Unit	Test Standard
Density	1080	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 100	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	280 - 300	°C	-
Mold temperature	60 - 100	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	240 - 260	°C	-
Zone 2	260 - 280	°C	-
Zone 3	280 - 300	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

Europe

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable