

Product Texts

NORYL™ PVX1201 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable grade 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	14	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	14	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2700	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	50	MPa	ISO 527
Strain at break	15	%	ISO 527
Flexural modulus	2500	MPa	ISO 178
Charpy notched impact strength, +23°C	17	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2800	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	15	%	ASTM D 638
Flexural Modulus	2600	MPa	ASTM D 790
Izod Impact notched, 1/8 in	200	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	100	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	120	°C	ISO 75-1/-2
Vicat softening temperature, B	128	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	131	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	110	°C	ASTM D 648
Vicat Temperature	128	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.25	%	Sim. to ISO 62
Humidity absorption	0.05	%	Sim. to ISO 62
Density	1110	kg/m ³	ISO 1183
Density	1110	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	105 - 110	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 310	°C	-
Mold temperature	75 - 105	°C	-
Zone 1	250 - 300	°C	-
Zone 2	260 - 305	°C	-

NORYL™ Resin PVX1201 - Americas

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Zone 3	270 - 310	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Chemical Resistance

Hydrolytically Stable