

**Product Texts**

NORYL PKN4775 resin is a non-reinforced, opaque blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This high heat, thin wall extrusion and injection moldable grade is an improved version of NORYL PKN4736 resin and exhibits modulus at elevated temperature and good chemical resistance. NORYL PKN4775 resin is an excellent candidate for applications in high performance packaging. \*See NORYL PKN4775F resin for FDA food compliant version.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	<b>14</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>300</b>	°C	-
Load	<b>5</b>	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>15.3</b>	g/10min	ASTM D 1238
Temperature	<b>300</b>	°C	-
Load	<b>5</b>	kg	-

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>2120</b>	MPa	ISO 527
Yield stress	<b>51</b>	MPa	ISO 527
Yield strain	<b>4.1</b>	%	ISO 527
Stress at break	<b>47</b>	MPa	ISO 527
Strain at break	<b>29.3</b>	%	ISO 527
Flexural modulus	<b>2160</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>19</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	<b>20</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	<b>11</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	<b>2120</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>51</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>47</b>	MPa	ASTM D 638
Elongation at Yield	<b>5.1</b>	%	ASTM D 638
Elongation at Break	<b>35</b>	%	ASTM D 638
Flexural Modulus	<b>2210</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>268</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>161</b>	J/m	ASTM D 256
Temperature	<b>-30</b>	°C	-

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>122</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>142</b>	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	<b>144</b>	°C	ISO 306
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>138</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>122</b>	°C	ASTM D 648
Vicat Temperature	<b>142</b>	°C	ASTM D 1525

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>0.25</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.05</b>	%	Sim. to ISO 62
Density	<b>1050</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1050</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics**

**Processing**

Sheet Extrusion

**Regional Availability**

Asia Pacific

**Chemical Resistance**

General Chemical Resistance