

**NORYL™ PPE 6850C - Europe**

PPE

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

NORYL™ 6850C resin concentrate is a non-reinforced blend of polyphenylene ether (PPE) + general purpose polystyrene (GPPS). This material is in granule form and is optimized for blending with polystyrene resins. NORYL 6850C resin may be an excellent candidate in microwavable food packaging applications and is compliant with US and European food contact regulations

<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>40</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>280</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>2540</b>	MPa	ISO 527
Yield stress	<b>70</b>	MPa	ISO 527
Yield strain	<b>5</b>	%	ISO 527
Stress at break	<b>70</b>	MPa	ISO 527
Strain at break	<b>5</b>	%	ISO 527
Flexural modulus	<b>2580</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>4</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>3</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	<b>4</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	<b>2</b>	kJ/m <sup>2</sup>	ISO 180/1A

<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>125</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>143</b>	°C	ISO 306
Vicat softening temperature, 120°C/h 10N	<b>151</b>	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	<b>145</b>	°C	ISO 306

<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>0.06</b>	%	Sim. to ISO 62
Density	<b>1060</b>	kg/m <sup>3</sup>	ISO 1183

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

**Characteristics****Certifications**

Food contact

**Regional Availability**

Europe