

**Product Texts**

NORYL™ EM6100 is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This grade exhibits a balance of flow/heat/impact, dimensional stability, along with paint adhesion. NORYL EM6100 resin is suitable for the automotive interior market in applications such as HVAC housings and radio components. MS-DB424, WSBM4D844-A9, GMP.PPE.007.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	15	cm <sup>3</sup> /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	2050	MPa	ISO 527
Yield stress	42	MPa	ISO 527
Yield strain	2.8	%	ISO 527
Stress at break	40	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2100	MPa	ISO 178
Flexural strength	65	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	33	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	15	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	1900	MPa	ASTM D 638
Tensile Strength at Yield	43	MPa	ASTM D 638
Tensile Strength at Break	40	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	65	%	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	453	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	250	J/m	ASTM D 256
Temperature	-30	°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	110	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	126	°C	ISO 75-1/-2
Vicat softening temperature, B	119	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	123	°C	ISO 306
<b>ASTM Data</b>			
DTUL @ 66 psi	124	°C	ASTM D 648
DTUL @ 264 psi	106	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	1050	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	95 - 105	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	265 - 295	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	230 - 280	°C	-
Zone 2	245 - 290	°C	-
Zone 3	255 - 295	°C	-

**NORYL™ Resin EM6100 - Asia**

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Screw speed	<b>20 - 100</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Asia Pacific

**Applications**

Automotive