

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.

UL Yellow Card Link [E121562-221232](https://www.ul.com/yellowcard/E121562-221232)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-

ASTM Data			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
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 ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	15	kJ/m ²	ISO 180/1A

ASTM Data			
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	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
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
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-

ASTM Data			
DTUL @ 66 psi	124	°C	ASTM D 648
DTUL @ 264 psi	106	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1050	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	95 - 105	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	265 - 295	°C	-

NORYL™ Resin EM6100 - Americas

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Mold temperature	65 - 95	°C	-
Zone 1	230 - 280	°C	-
Zone 2	245 - 290	°C	-
Zone 3	255 - 295	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Applications

Automotive