

Product Texts

NORYL™ PX0844 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This grade exhibits very low moisture absorption, hydrolytic stability, dimensional stability, good foam adhesion, and property retention over a wide temperature range. NORYL PX0844 resin is inherently UL94 HB and is an excellent candidate for automotive interior applications such as instrument panels, audio components, speaker housings, and interior trim. *see NORYL PX0888 resin for higher heat resistance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	13.7	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2350	MPa	ISO 527
Yield stress	47	MPa	ISO 527
Yield strain	2.9	%	ISO 527
Stress at break	43	MPa	ISO 527
Strain at break	43	%	ISO 527
Flexural modulus	2400	MPa	ISO 178
Flexural strength	78	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	17	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2290	MPa	ASTM D 638
Tensile Strength at Yield	49	MPa	ASTM D 638
Tensile Strength at Break	44	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	2550	MPa	ASTM D 790
Rockwell Hardness	R 114	-	ASTM D 785
Izod Impact notched, 1/8 in	234	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	133	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	125	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	128	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	120	°C	ASTM D 648
DTUL @ 264 psi	105	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1060	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	275 - 305	°C	-
Mold temperature	70 - 100	°C	-
Zone 1	245 - 295	°C	-
Zone 2	255 - 300	°C	-
Zone 3	265 - 305	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

NORYL™ Resin PX0844 - Americas

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Characteristics

Processing

Injection Molding

Applications

Automotive

Chemical Resistance

Hydrolytically Stable

Regional Availability

North America