NORYL™ Resin PX0844 - Europe

(PPE+PS) Saudi Basic Industries Corporation (SABIC)

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 stabilty, 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
ISO Data			
Melt volume-flow rate, MVR	**9**	cm³/10min	ISO 1133
Temperature	**280**	°C	-
Load	**3.8**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2350**	MPa	ISO 527
Yield stress	**45**	MPa	ISO 527
Yield strain	**4**	%	ISO 527
Stress at break	**35**	MPa	ISO 527
Strain at break	**40**	%	ISO 527
Flexural modulus	**2200**	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	**17**	kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	**10**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, A	**130**	°C	ISO 306
Vicat softening temperature, B	**125**	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	**128**	°C	ISO 306
Thermal Conductivity	**0.23**	W/(m K)	DIN 52616

Other properties	Value	Unit	Test Standard
Water absorption	**0.14**	%	Sim. to ISO 62
Humidity absorption	**0.03**	%	Sim. to ISO 62
Density	**1060**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**100 - 120**	°C	-
Pre-drying - Time	**2 - 3**	h	-
Melt temperature	**280 - 300**	°C	-
Mold temperature	**80 - 120**	°C	-
Feed temperature	**60 - 80**	°C	-
Zone 1	**240 - 260**	°C	-
Zone 2	**260 - 280**	°C	-
Zone 3	**280 - 300**	°C	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Chemical Resistance
Hydrolytically Stable

Regional Availability
Europe

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