NORYL™ Resin PX1185 - Europe

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

Product Texts

NORYL™ PX1185 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This lubricated, impact modified, extrusion grade was developed for automotive trim applications and offers high heat resistance, good impact resistance, low specific gravity, and dimensional stability.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**12**	cm³/10min	ISO 1133
Temperature	**280**	°C	-
Load	**10**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**1500**	MPa	ISO 527
Yield stress	**30**	MPa	ISO 527
Yield strain	**2.5**	%	ISO 527
Stress at break	**35**	MPa	ISO 527
Strain at break	**50**	%	ISO 527
Charpy notched impact strength, +23°C	**22**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**8**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	**25**	kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	**8**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	**110**	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	**120**	°C	ISO 306
Thermal Conductivity	**0.22**	W/(m K)	DIN 52616

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**2.6**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**9**	E-4	IEC 62631-2-1
Volume resistivity	**1E13**	Ohm*m	IEC 62631-3-1

Other properties	Value	Unit	Test Standard
Water absorption	**0.19**	%	Sim. to ISO 62
Humidity absorption	**0.06**	%	Sim. to ISO 62
Density	**1060**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 100**	°C	-
Pre-drying - Time	**2 - 3**	h	-
Melt temperature	**280 - 300**	°C	-
Mold temperature	**60 - 100**	°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, Profile Extrusion

Regional Availability

Europe

Special Characteristics

High impact or impact modified