

NORYL™ Resin 731 - Asia

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL™ 731 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable grade exhibits good surface appearance, high ductility, and good impact resistance along with low moisture absorption, creep resistance, dimensional stability, and hydrolytic stability. NORYL 731 resin is an excellent candidate for a variety of applications.

UL Yellow Card Link [E45587-237006](#)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	12	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	40	MPa	ISO 527
Yield strain	70	%	ISO 527
Stress at break	40	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2300	MPa	ISO 178
Charpy notched impact strength, +23°C	13	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	60	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	55	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	16	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2400	MPa	ASTM D 638
Tensile Strength at Yield	54	MPa	ASTM D 638
Tensile Strength at Break	45	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	150	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	120	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	800	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	112	°C	ISO 75-1/-2
Vicat softening temperature, B	133	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	135	°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 @ 264 psi	110	°C	ASTM D 648
Vicat Temperature	133	°C	ASTM D 1525
Other properties			
Density	1080	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	105 - 110	°C	-
Pre-drying - Time	3 - 4	h	-

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Processing humidity	≤0.02	%	-
Melt temperature	280 - 310	°C	-
Mold temperature	75 - 105	°C	-
Zone 1	250 - 300	°C	-
Zone 2	260 - 305	°C	-
Zone 3	270 - 310	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Applications

Automotive

Chemical Resistance

Hydrolytically Stable

Regional Availability

Asia Pacific