

Product Texts

NORYL™ N1250 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable grade contains non-brominated, non-chlorinated flame retardant and carries a UL94 flame rating of 5VA at 2.5mm and V0 at 0.75mm. NORYL N1250 resin offers thin wall FR capability, enhanced dimensional stability, high heat resistance, low moisture absorption, and good electrically insulating properties. It may be an excellent candidate for a variety of consumer electronic applications such as charger and adapter housings.

UL Yellow Card Link [E45329-100037004](https://www.ul.com/yellow-card/E45329-100037004)

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	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2620	MPa	ISO 527
Yield stress	75	MPa	ISO 527
Yield strain	4.5	%	ISO 527
Stress at break	55	MPa	ISO 527
Strain at break	8	%	ISO 527
Flexural modulus	2530	MPa	ISO 178
Charpy notched impact strength, +23°C	7	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	6	kJ/m ²	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	2700	MPa	ASTM D 638
Tensile Strength at Yield	77	MPa	ASTM D 638
Tensile Strength at Break	62	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	15	%	ASTM D 638
Flexural Modulus	2800	MPa	ASTM D 790
Izod Impact notched, 1/8 in	100	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	119	°C	ISO 75-1/-2
Vicat softening temperature, 120°C/h 50N	139	°C	ISO 306
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	2.5	mm	-

ASTM Data	Value	Unit	Test Standard
DTUL @ 66 psi	125	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	250	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	0.25	%	Sim. to ISO 62
Humidity absorption	0.05	%	Sim. to ISO 62
Density	1100	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	105 - 110	°C	-

NORYL™ Resin N1250 - Europe

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

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	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Applications

Automotive

Regional Availability

Europe