NORYL™ RESIN LEN2211

REGION ASIA

DESCRIPTION

NORYL™ LEN221 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This grade contains non-brominated, non-chlorinated flame retardant and carries a UL94 flame rating of V1 at 1.5mm. NORYL LEN221 resin exhibits good dimensional stability, low specific gravity, low warpage and is an excellent candidate for electronic LED applications.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	57	MPa	SABIC - Japan Method
Tensile Strain, break	35	%	SABIC - Japan Method
Flexural Stress	96	MPa	ASTM D 790
Flexural Modulus	2840	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	78	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	120	°C	ASTM D 648
CTE, -30°C to 30°C	6.E-05	1/°C	TMA
Relative Temp Index, Elec (1)	65	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	65	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	65	°C	UL 746B
PHYSICAL			
Specific Gravity	1.23	-	ASTM D 792
Water Absorption, 24 hours	0.07	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.5 – 0.7	%	SABIC method
Melt Flow Rate, 250°C/10.0 kgf	7	g/10 min	ASTM D 1238
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-228555	-	-
UL Yellow Card Link 2	E45587-237044	-	-
UL Recognized, 94HB Flame Class Rating	≥0.75	mm	UL 94
UL Recognized, 94V-1 Flame Class Rating	≥1.5	mm	UL 94

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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