NORYL™ RESIN CN1134

REGION ASIA

DESCRIPTION

NORYL™ CN1134 resin is a 20% filled blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This high modulus, injection moldable grade contains non-brominated, non-chlorinated flame retardant and carries a UL94 flame rating of V1 at 1.5mm. NORYL CN1134 resin exhibits good dimensional stability, low moisture absorption, and high rigidity. It is an excellent candidate for printer chassis and electric vehicle battery (EV) applications.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	98	MPa	SABIC - Japan Method
Tensile Strain, break	7	%	SABIC - Japan Method
Flexural Stress	137	MPa	ASTM D 790
Flexural Modulus	5880	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	68	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	106	°C	ASTM D 648
CTE, -30°C to 30°C	0.000025 – 0.000035	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	0.25 – 0.35	%	SABIC method
Melt Flow Rate, 300°C/2.16 kgf	22.1	g/10 min	ASTM D 1238
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-228541	-	-
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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