NORYL™ RESIN CN5246

REGION ASIA

DESCRIPTION

NORYL™ CN5246 resin is a 30% 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 5VB at 2mm and V1 at 1.5mm. NORYL CN5246 resin exhibits good dimensional stability, low moisture absorption, high rigidity and is an excellent candidate for printer chassis applications.

TYPICAL PROPERTY VALUES

Revision 20190723

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	108	MPa	SABIC - Japan Method
Tensile Strain, break	7	%	SABIC - Japan Method
Flexural Stress	152	MPa	ASTM D 790
Flexural Modulus	8230	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	125	°C	ASTM D 648
CTE, -30°C to 30°C	2.40E-05 – 3.40E-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	1.33	-	ASTM D 792
Water Absorption, 24 hours	0.06	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.25 – 0.3	%	SABIC method
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-228542	-	-
UL Recognized, 94-5VB Flame Class Rating	≥2	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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