NORYL™ RESIN ZM3242

REGION ASIA

DESCRIPTION

NORYL™ ZM3242 resin is a 30% mineral reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable grade exhibits super low warpage and contains non-brominated, non-chlorinated flame retardant with a UL94 flame rating of V1 at 1.2mm. NORYL ZM3242 resin contains mold release and may be an excellent candidate for consumer electronic / document handling applications.

TYPICAL PROPERTY VALUES

Revision 20191009

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	65	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	6	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	104	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	5770	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	23	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	110	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.1E-05	1/°C	ASTM E 831
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	1.35	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.4	%	SABIC method
Melt Flow Rate, 300°C/2.16 kgf	27	g/10 min	ASTM D 1238
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-309727	-	-
UL Recognized, 94V-1 Flame Class Rating	≥1.2	mm	UL 94
INJECTION MOLDING			
Drying Temperature	90 – 100	°C	
Drying Time	2 – 4	hrs	
Melt Temperature	280 – 300	°C	
Nozzle Temperature	280 – 300	°C	
Front - Zone 3 Temperature	280 – 300	°C	
Middle - Zone 2 Temperature	270 – 290	°C	
Rear - Zone 1 Temperature	260 – 280	°C	
Mold Temperature	70 – 90	°C	

(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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