NORYL™ RESIN N802

REGION AMERICAS

DESCRIPTION

NORYL™ N802 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 V2 at 0.8mm. NORYL N802 resin exhibits high flow, good dimensional stability, and low specific gravity. It is an excellent candidate for a variety of printer applications.

TYPICAL PROPERTY VALUES

Revision 20191031

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	35	MPa	SABIC - Japan Method
Tensile Strain, break	50	%	SABIC - Japan Method
Flexural Stress	53	MPa	ASTM D 790
Flexural Modulus	2150	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	80	°C	ASTM D 648
CTE, -30°C to 30°C	7.00E-05	1/°C	TMA
PHYSICAL			
Specific Gravity	1.08	-	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, 260°C/2.16 kgf	21	g/10 min	ASTM D 1238
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-101771660	-	-
UL Recognized, 94V-2 Flame Class Rating	≥0.8	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80 – 85	°C	
Drying Time	2 – 4	hrs	
Drying Time (Cumulative)	8	hrs	
Melt Temperature	230	°C	
Nozzle Temperature	190 – 230	°C	
Front - Zone 3 Temperature	190 – 230	°C	
Middle - Zone 2 Temperature	190 – 230	°C	
Rear - Zone 1 Temperature	175 – 225	°C	
Mold Temperature	40 – 65	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	20 – 100	rpm	
Shot to Cylinder Size	30 – 70	%	
Vent Depth	0.038 – 0.051	mm	

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(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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