LNP™ ELCRIN™ N1000DXG

ER016333

DESCRIPTION

LNP ELCRIN N1000DXG compound is an unfilled polycarbonate (PC) and acrylonitrile butadiene styrene (ABS) blend medium heat plating grade that incorporates renewable feedstock through ISCC+ mass-balance certification. Available in limited colors.

GENERAL INFORMATION	
Features	Bio-Renewable, No PFAS intentionally added (PCR contains <50ppm total organic fluorine content)
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding
Regional Availability	Global

TYPICAL PROPERTY VALUES

Revision 20261124

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 50 mm/min	49	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	46	MPa	ASTM D638
Tensile Stress, yield, 50 mm/min	46	MPa	ISO 527
Tensile Stress, break, 50 mm/min	38	MPa	ISO 527
Tensile Strain, Break			
Type I, 50 mm/min	95	%	ASTM D638
50 mm/min	87	%	ISO 527
Tensile Strain, Yield			
Type I, 50 mm/min	4.6	%	ASTM D638
50 mm/min	4.1	%	ISO 527
Tensile Modulus			
50 mm/min	2000	MPa	ASTM D638
1 mm/min	2200	MPa	ISO 527
Flexural Stress at break			
1.3 mm/min, 50 mm span	76	MPa	ASTM D790
2 mm/min	69	MPa	ISO 178
Flexural Modulus			
1.3 mm/min, 50 mm span	2000	MPa	ASTM D790
2 mm/min	2100	MPa	ISO 178
IMPACT [1]			
Izod impact, notched			
23°C	530	J/m	ASTM D256
-30°C	390	J/m	ASTM D256
80*10*4 +23°C	60	kJ/m²	ISO 180/1A
80*10*4 -30°C	25	kJ/m²	ISO 180/1A
Instrumented Impact Total Energy, 23°C	52	J	ASTM D3763
THERMAL [1]			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	121	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	98	°C	ISO 75/Af
Vicat Softening Temp, Rate B/50	113	°C	ASTM D1525
Vicat Softening Temp, Rate B/50	115	°C	ISO 306
Vicat Softening Temp, Rate B/120	118	°C	ASTM D1525
Vicat Softening Temp, Rate B/120	117	°C	ISO 306
HDT			
0.45 MPa, 3.2 mm, unannealed	120	°C	ASTM D648
1.82 MPa, 3.2 mm, unannealed	97	°C	ASTM D648
CTE			
-40°C to 40°C, flow	0.000086	1/°C	ASTM E831
-40°C to 40°C, xflow	0.000091	1/°C	ASTM E831
PHYSICAL (1)			
Density	1.10	g/cm³	ISO 1183
Melt Volume Rate			
260°C/5 kg	13	cm³/10 min	ISO 1133
Melt Flow Rate			
260°C/5.0 kgf	16	g/10 min	ASTM D1238
Mold Shrinkage, flow (2)	0.6 – 0.8	%	SABIC method
Mold Shrinkage, xflow (2)	0.6 – 0.8	%	SABIC method
INJECTION MOLDING (3)			
Drying Temperature	95 – 105	°C	
Drying Time	2 – 4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	250 – 280	°C	
Nozzle Temperature	230 – 270	°C	
Front - Zone 3 Temperature	240 – 280	°C	
Middle - Zone 2 Temperature	240 – 280	°C	
Rear - Zone 1 Temperature	220 – 250	°C	
Mold Temperature	60 – 90	°C	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded articles.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentionally PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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