

ENVIROPLAS® ENV11-NC720

Polycarbonate
ENVIROPLAS®, Inc.

Message:
Injection Molding Grade, Translucent - Opaque, Non-Halogenated, Flame Retardant, UV Stabilized, Mold Release, Excellent for Soft, Even, Light Diffusion
Performance in LED Lighting Applications, RoHS Compliant

General Information			
Additive	Flame Retardant		
	UV Stabilizer		
Features	Flame Retardant		
	Good Mold Release		
	Good UV Resistance		
	Halogen Free		
Uses	LEDs		
	Lighting Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Opaque		
	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	66.2	MPa	ASTM D638
Tensile Elongation (Break)	80	%	ASTM D638
Flexural Modulus	2310	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	680	J/m	ASTM D256
Gardner Impact (23°C)	45.2	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	124	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating		Internal Method
1.50 mm	V-0	
3.00 mm	5VA	
Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	254 to 266	°C
Middle Temperature	266 to 277	°C
Front Temperature	266 to 277	°C
Nozzle Temperature	243 to 266	°C
Mold Temperature	68.3 to 93.3	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm

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