

Makropol® PC A3 MF UV BRCA011 PC318

Polycarbonate

Petropol Industry and Trade of Polymers LTDA

Message:

Polycarbonate injection molding in color white, with excellent thermal and mechanical properties, with UV protection.

General Information			
Additive	UV Stabilizer		
Features	Good UV Resistance		
Appearance	White		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PC<		
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)	15 to 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption			ASTM D570
24 hr	0.16	%	
Equilibrium	0.30	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	60.0	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	95.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	700	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	130	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dissipation Factor (60 Hz)	9.0E-4		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	

Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	265 to 290	°C
Mold Temperature	70.0 to 110	°C

NOTE

1.
- Loading 2 (50 N)

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