

Makropol® PC A3 MF UV RUB0032 PC322

MSP

Polycarbonate

Petropol Industry and Trade of Polymers LTDA

Message:

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

General Information			
Additive	UV Stabilizer		
Features	Good UV Resistance		
Appearance	Red		
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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