

Makropol® PC A3 MF UV PRTA010 PC320

MSP

Polycarbonate

Petropol Industry and Trade of Polymers LTDA

Message:

Polycarbonate in black color,medium-viscosity, FDA grade , ideal for injection molding, good set of thermal properties, electrical and mechanical.

General Information			
Features	Medium Viscosity		
Agency Ratings	FDA Unspecified Rating		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PC<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.80	%	ASTM D955
Water Absorption			ASTM D570
24 hr	0.12	%	
Equilibrium	0.30	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2400	MPa	ASTM D638
Tensile Strength (Break)	70.0	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	2400	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	910	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	131	°C	ASTM D648
Vicat Softening Temperature	144	°C	ASTM D1525 ²
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

Oxygen Index	28	%	ASTM D2863
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.	1.0 mm/min		
2.	Loading 2 (50 N)		

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