

OP - PC - Unfilled 46

Polycarbonate
Oxford Polymers

Message:

OP - PC - Unfilled 46 is a Polycarbonate (PC) material. It is available in North America for blow molding, extrusion, or injection molding. Primary attribute of OP - PC - Unfilled 46: Flame Rated.

General Information			
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2380	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	62.1	MPa	
Break	65.5	MPa	
Tensile Elongation			ASTM D638
Yield	7.0	%	
Break	110	%	
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Compressive Strength	86.2	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	800	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	138	°C	
1.8 MPa, Unannealed	132	°C	

Flammability	Nominal Value	Test Method
Flame Rating	V-2	UL 94

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	3.0 to 4.0	hr

Rear Temperature	266	°C
Middle Temperature	271	°C
Front Temperature	277	°C
Nozzle Temperature	277	°C
Mold Temperature	71.1 to 93.3	°C
Extrusion	Nominal Value	Unit
Melt Temperature	288	°C

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Recommended distributors for this material

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