

Durolon® HFR1900 CR010

Polycarbonate

Unigel Plásticos

Message:

Durolon® HFR1900 CR010 is a Polycarbonate (PC) material. It is available in Europe, Latin America, or North America for injection molding. Important attributes of Durolon® HFR1900 CR010 are:

- Clarity
- Food Contact Acceptable
- Good Mold Release
- Low Viscosity
- Typical applications include:
 - Food Contact Applications
 - Medical/Healthcare

General Information			
Features	Food Contact Acceptable		
	Good Mold Release		
	High Clarity		
	Low Viscosity		
Uses	Medical/Healthcare Applications		
Agency Ratings	FDA 21 CFR 177.1580		
Appearance	Clear - Blue Tint		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.23	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	75		
R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	63.0	MPa	
Break	68.0	MPa	
Tensile Elongation (Break)	90	%	ASTM D638, ISO 527-2
Flexural Modulus	2350	MPa	ASTM D790, ISO 178
Flexural Strength	90.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.20 mm)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	128	°C	ASTM D648, ISO 75-2/A
CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	29	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	2.91		
1 MHz	2.85		
Dissipation Factor			ASTM D150
60 Hz	6.6E-4		
1 MHz	9.2E-3		
Arc Resistance	110	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature (3.20 mm)	850	°C	IEC 60695-2-13
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.586		ASTM D542, ISO 489
Transmittance	85.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Rear Temperature	250	°C	
Middle Temperature	260	°C	
Front Temperature	270	°C	
Nozzle Temperature	260	°C	
Processing (Melt) Temp	240 to 300	°C	
Mold Temperature	80.0 to 100	°C	

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