Durolon® IR2200 CR010

Polycarbonate

Unigel Plásticos

Message:

Durolon® IR2200 CR010 is a Polycarbonate (PC) material. It is available in Europe, Latin America, or North America for injection molding or stretch blow molding.
Important attributes of Durolon® IR2200 CR010 are:
Flame Rated
Clarity
Food Contact Acceptable
Good Mold Release
Medium Viscosity
Typical applications include:
Bottles
Food Contact Applications
Medical/Healthcare

General Information	
Features	Food Contact Acceptable Good Mold Release High Clarity Medium Viscosity
Uses	Bottles Medical/Healthcare Applications
Agency Ratings	FDA 21 CFR 177.1580
UL File Number	E102385
Appearance	Clear - Blue Tint
Forms	Pellets
Processing Method	Injection Molding Stretch Blow Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	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	68.0	MPa	
Break	73.0	MPa	
Tensile Elongation (Break)	100	%	ASTM D638, ISO 527-2
Flexural Modulus	2350	MPa	ASTM D790, ISO 178
Flexural Strength	95.0	MPa	ASTM D790, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	830	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	132	°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**
Flame Rating (1.50 mm)	HB		UL 94
Glow Wire Ignition Temperature (3.20 mm)	960	°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	260	°C	
Middle Temperature	270	°C	
Front Temperature	280	°C	
Nozzle Temperature	270	°C	
Processing (Melt) Temp	240 to 300	°C	
Mold Temperature	80.0 to 100	°C	

Recommended distributors for this material

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