

Durolon® I2600

Polycarbonate

Unigel Plásticos

Message:

Extrusion molding polycarbonate for profiles.

Blow Molding - linear product for Extrusion-Blow and Stretch-Blow of large bottles (330 ml to 20 liters).

General Information	
Features	Definition, high
	Compliance of Food Exposure
Uses	Bottle
	Medical/nursing supplies
Agency Ratings	FDA 21 CFR 177.1580
UL File Number	E102385
Appearance	Available colors
	Clear/transparent
Forms	Particle
Processing Method	Extrusion
	Stretch blow molding
	Injection blowing 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)	6.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.50 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.23	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m	75		ASTM D785
Class r	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	73.0	MPa	ASTM D638, ISO 527-2
Fracture	78.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	110	%	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)	880	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	135	°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		ASTM D150
1 MHz	2.85		ASTM D150
Dissipation Factor			ASTM D150
60 Hz	6.6E-4		ASTM D150
1 MHz	9.2E-3		ASTM D150
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	89.0	%	ASTM D1003
Additional Information			

Volume Resistivity, ASTM D257: >1E16 ohm-cmArc Resistance, ASTM D495: 100 to 120 sec

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