

Durolon® G2510 PR001

Polycarbonate

Unigel Plásticos

Message:

Durolon® G2510 PR001 is a Polycarbonate (PC) material filled with 10% glass fiber. It is available in Europe, Latin America, or North America for injection molding.

Important attributes of Durolon® G2510 PR001 are:

Good Dimensional Stability

Heat Resistant

High Hardness

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Dimensional Stability		
	Good Strength		
	High Hardness		
	High Heat Resistance		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	0.50 to 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3900	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	88.0	MPa	
Break	83.0	MPa	
Tensile Elongation (Break)	5.0	%	ASTM D638, ISO 527-2
Flexural Modulus	3920	MPa	ASTM D790, ISO 178
Flexural Strength	120	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	136	°C	ASTM D648, ISO 75-2/A
CLTE - Flow	4.5E-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)	22	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.10		
1 MHz	2.95		
Dissipation Factor			ASTM D150
60 Hz	8.0E-4		
1 MHz	9.0E-3		
Arc Resistance	110	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature (3.20 mm)	960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Rear Temperature	270	°C	
Middle Temperature	280	°C	
Front Temperature	290	°C	
Nozzle Temperature	280	°C	
Processing (Melt) Temp	240 to 300	°C	
Mold Temperature	80.0 to 100	°C	

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Recommended distributors for this material

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