

Durolon® G2530

Polycarbonate

Unigel Plásticos

Message:

Injection molding, natural polycarbonate 30% glass fiber reinforced.
Enhanced tensile strength, dimensional stability, hardness and heat distortion resistance performance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability		
	Good strength		
	Heat resistance, high		
	High hardness		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	0.15 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.11	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8100	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	120	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus	8530	MPa	ASTM D790, ISO 178
Flexural Strength	170	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	144	°C	ASTM D648, ISO 75-2/A
CLTE - Flow	2.3E-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		ASTM D150
1 MHz	2.95		ASTM D150
Dissipation Factor			ASTM D150
60 Hz	8.0E-4		ASTM D150
1 MHz	9.0E-3		ASTM D150
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
Additional Information			
Volume Resistivity, ASTM D257: >1E16 ohm-cmDielectric Strength, ASTM D149, 1.6 mm: >22 kV/mm			
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 - 300	°C	
Mold Temperature	80.0 - 100	°C	

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