Ficha técnica

PLÁSTICOS CARRERA

Policarbonato

General Properties	Test Method	Units	Values
Density	ISO 1183	g/cm³	1.2
Light transmission (thickens dependent)	ASTM D 1003	%	88-90
Refractive index	ASTM D 542		1.585
Mechanical Properties			
Tensile Modulus	ISO 527	MPa	2300
Tensile Strength at yield	ISO 527	MPa	60
Elongation at break	ISO 527	%	>120
Elongation at yield	ISO 527	%	6
Flexural Modulus	ISO 178	MPa	2300
Rockwell hardness	ASTM D 785	M-scale	75
Charpy Un-notched	ISO 179	KJ/m^2	Not Break
Izod Impact notched	ISO 180 a	KJ/m^2	> 65
Thermal Properties			
Temp of deflection under load 1.8 MPa	ISO 75-1	°C	130
Thermal conductivity	DIN52612	W/m.°C	0.2
Coefficient of linear thermal expansion 0-50°C	ISO 11359	1/°C	7E-5
Degradation Temperature		°C	>280
Vicat softening temp (50°C/h 50N)	ISO 306	°C	144
Electrical Properties			
Volume Resistivity	DIN 53483	Ohm.cm	10^{13}
Surface Resistivity	DIN 53483	Ω x cm	10^{15}
Dissipation Factor 1Mhz	DIN 53483		0.01
Dissipation Factor 5 Hz	DIN 53483		0.001
Dielectric Strength	DIN 53483	KV/mm	>30

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Policarbonato / Transmisión de luz

PLAZCARB R8000 PC CLEAR	
Thickness	**Light Transmission %**
1	89
2	88-89
3	87
4	87
5	86
6	85
8	84
10	82
12	81

PLAZCARB R8080 PC OPAL	
Thickness	**Light Transmission %**
1	46-50
1.5	41-45
2	35-39
2.5	29-33
2.9	25-29
3	24-28
3.9	16-20
4	15-19
4.5	13-17
5	10-14
6	7-11
8	4-8

PLAZCARB PC DIFFUSER R 8072	
Thickness	**Light Transmission %**
2	85-87
3	68-72
4	56-60
5	47-51
6	30-34
8	28-32