

# Technical Metric Data

Chromafilters - Acrylic			
Infrared - Diffusion - LCD - VFD - EMC Display Filters			
	Test	Unit	Values
<b>Mechanical properties:</b>			
Tensile strength	DIN 53455	N/mm <sup>2</sup>	65-68
Compressive strength	DIN 53454	N/mm <sup>2</sup>	125
Flexural strength	DIN 53452	N/mm <sup>2</sup>	120
Impact strength	DIN 53453	N/mm <sup>2</sup>	12
Modulus of elasticity	DIN 53457	N/mm <sup>2</sup>	3.000
Elongation at break	DIN 53455	%	3-4
Hardness	DIN 53456	N/mm <sup>2</sup>	175
<b>Thermal properties:</b>			
Heat stability - Vica, clear 3 mm	DIN 53460	°C	115
Forming temperature		°C	150-170
Coefficient of linear thermal expansion	VDE 0304	mm/m°C	0.08
Specific heat		kJ/kg K	1.46
Thermal conductivity		W/m K	0.186
<b>Electric properties:</b>			
Dielectric strength	DIN 53481	kV/mm	40
Volume resistivity	DIN 53482	ohm cm	10 <sup>15</sup>
Dielectric constant	DIN 53483		3.4
Dissipation factor	DIN53483		0,06
<b>Other properties:</b>			
Specific gravity	DIN 53479	g/cm <sup>3</sup>	1.18-1.19
Water absorption	at 20° C, 24 hrs	%	0.17
Light transmission (clear)	450 nm	%	92
Flame class rating clear 3 mm	UL94		HB
Refractive index			1.41

Dimensions:  
1500x1000 mm.

Standard thickness:  
0.5 - 0.8 - 1.0 - 1.5 - 2.0 - 2.5 - 3.0 mm.  
Other thicknesses available upon request.

Standard tolerance:  
Thickness:  
+/- 0.2 mm  
Length/width:  
+/- 0.2 mm.  
(machining).  
Special tolerances available upon request.

Standard Colors:  
More than 60 different colors.  
Apart from contrast filters, we also produce Chromafilter infra-red filters, diffusion filters (backlighting), VFD filters, LCD filters, EMC Display filters.  
Special colors can be manufactured to customer's specifications.



A Division of G&D Technologies, L.L.C.