PLEXIGLAS® Sheet UV 100 AR

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

PLEXIGLAS® UV 100 is an extremely weather-resistant and highly transparent extruded sheet material made from acrylic (polymethylmethacrylate, PMMA). PLEXIGLAS® UV 100 AR has a slightly matted anti-glare surface on one side, which diffuses reflections from windows or lamps, for example. Due to these properties PLEXIGLAS® UV 100 is suitable for the following applications - Glazing for UV-sensitive artworks and objets d 'art Picture glazing

Features Good UV Resistance Good Weather Resistance High Hardness Low Molecular Weight Recyclable Material Uses Glazing Appearance Clear/Transparent Forms Sheet Processing Method Extrusion Physical Nominal Value Unit Density 1.19 g/cm³ ISO 1183 Mechanical Nominal Value Unit Test Method Tensile Modulus 3300 MPa ISO 527- Abrasion Resistance 100 U; 54 N; CS-10 F 20.0 to 30.0 % Haze ISO 9352 3 kg, reduced luminance 22.0 cd/k/m² DIN 5234 Fire Rating B2, Normally flammable DIN 4102 Smoke Gas Corrosiveness Non-corrosive VDE 0482	3
High Hardness Low Molecular Weight Recyclable MaterialUsesGlazingAppearanceClear/TransparentFormsSheetProcessing MethodExtrusionPhysicalNominal ValueUnitDensity1.19g/cm³150 1183MechanicalNominal ValueUnitTest MetTensile Modulus300MPa150 527Abrasion Resistance100 to 30.0% Haze150 932100 u; 54 N; CS-10 F20.0 to 30.0% Haze150 9323 kg, reduced luminance82. Normally flammableCol/km²DIN 402Fire Rating82. Normally flammableUnit Met101 402Smele Gas CorrosivenessNon-corosiveVDE 048101 402	3
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Fire Rating B2, Normally flammable DIN 4102 Smoke Gas Corrosiveness Non-corrosive VDE 0482	2
Smoke Gas Corrosiveness Non-corrosive VDE 0482	48
	2
	2-267
Smoke Gas VolumeVery LowDIN 4102	2
Smoke Toxicity Non-toxic DIN 5343	36
Impact Nominal Value Unit Test Met	thod
Charpy Unnotched Impact Strength 15 kJ/m ² ISO 179	
Thermal Nominal Value Unit Test Met	thod
CLTE - Flow (0 to 50°C) 7.0E-5 cm/cm/°C DIN 5375	52
Electrical Nominal Value Unit Test Met	thod
Surface Resistivity5.0E+13ohmsIEC 6009	3
Electric Strength 0.50 to 1.0 kV/mm IEC 6024	.3-1
Optical Nominal Value Unit Test Met	łhod
Refractive Index1.491ISO 489	
Transmittance	

1	92.0	%	
2	< 0.1	%	DIN 5036
3	0.3	%	DIN EN 410
NOTE			
1.	In the visible range		
2.	D65		

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