# 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
Low Molecular Weight Recyclable MaterialUsesGlazingAppearanceClear/TransparentFormsSheetProcessing MethodExtrusionPhysicalNominal ValueUnitTest MetDensity1.19Insinal ValueUnitTensile Modulus300Mominal ValueUnitTestie Modulus300Marsion Resistance10 U, 54 N; CS-10 F10 U, 54 N; CS-10 F2.0 to 30.03 kg, reduced luminance22.021.0cd/lx/m²Sine Gas CorrosivenessNon-corrosiveVDE 048	3
Recyclable MaterialUsesGlazingAppearanceClear/TransparentFormsSheetProcessing MethodExtrusionPhysicalNominal ValueUnitDensity1.19g/cm³MechanicalNominal ValueUnitTensile Modulus300MPa100 U; 54 N; CS 10 F20.0 to 30.0% Haze100 U; 54 N; CS 10 F20.0 to 30.0% Haze126 RatingB2, Normally flammableUnitFre RatingB2, Normally flammableUnit Note Note Note Note Note Note Note Not	3
UsesGlazingAppearanceClear/TransparentFormsSheetProcessing MethodExtrusionPhysicalNominal ValueUnitDensity1.19g/cm³ISO 1183MechanicalNominal ValueUnitTest MethodTensile Modulus3300MPaISO 527-Abrasion Resistance100 U; 5.4 N; CS-10 F20.0 to 30.0% HazeISO 93523 kg, reduced luminance22.0cd/lk/m²DIN 523-Fire RatingB2, Normally flammableJDIN 4102Smoke Gas CorrosivenessNon-corrosiveVDE 048	3
AppearanceClear/TransparentFormsSheetProcessing MethodExtrusionPhysicalNominal ValueUnitDensity1.19g/cm³MechanicalNominal ValueUnitTensile Modulus3300MPaAbrasion Resistance100 U.; 5.4 N; CS-10 F20.0 to 30.03 kg, reduced luminance22.0cd/lx/m²Fire RatingB2, Normally flammableDIN 4102Smoke Gas CorrosivenessNon-corrosiveVDE 048	3
AppearanceClear/TransparentFormsSheetProcessing MethodExtrusionPhysicalNominal ValueUnitDensity1.19g/cm³MechanicalNominal ValueUnitTensile Modulus3300MPaAbrasion Resistance100 U.; 5.4 N; CS-10 F20.0 to 30.03 kg, reduced luminance22.0cd/lx/m²Fire RatingB2, Normally flammableDIN 4102Smoke Gas CorrosivenessNon-corrosiveVDE 048	3
FormsSheetProcessing MethodExtrusionPhysicalNominal ValueUnitDensity1.19g/cm³MechanicalNominal ValueUnitTensile Modulus3300MPaAbrasion Resistance100 U; 5.4 N; CS-10 F20.0 to 30.03 kg, reduced luminance22.0cd/lx/m²Fire RatingB2, Normally flammableDIN 4102Smoke Gas CorrosivenessNon-corrosiveVEC 448	3
Processing MethodExtrusionPhysicalNominal ValueUnitTest MethodDensity1.19g/cm³ISO 1183MechanicalNominal ValueUnitTest MethodTensile Modulus3300MPaISO 527-1Abrasion Resistance100 U; 5.4 N; CS-10 F20.0 to 30.0% HazeISO 93523 kg, reduced luminance22.0cd/lx/m²DIN 5234Fire RatingB2, Normally flammableDIN 4102Smoke Gas CorrosivenessNon-corrosiveVDE 0482	3
PhysicalNominal ValueUnitTest MetDensity1.19g/cm³ISO 1183MechanicalNominal ValueUnitTest MetTensile Modulus3300MPaISO 527-4Abrasion Resistance20.0 to 30.0% HazeISO 9352100 U.; 5.4 N; CS-10 F20.0 to 30.0% HazeISO 93523 kg, reduced luminance22.0cd/lx/m²DIN 5234Fire RatingB2, Normally flammableDIN 4102Smoke Gas CorrosivenessNon-corrosiveVDE 0482	3
Density1.19g/cm³ISO 1183MechanicalNominal ValueUnitTest MethanicalTensile Modulus3300MPaISO 527-4Abrasion Resistance300MPaISO 9352100 U; 5.4 N; CS-10 F20.0 to 30.0% HazeISO 93523 kg, reduced luminance22.0cd/lx/m²DIN 5234Fire RatingB2, Normally flammableDIN 4102Smoke Gas CorrosivenessNon-corrosiveVDE 0482	3
MechanicalNominal ValueUnitTest MethanicalTensile Modulus3300MPaISO 527-4Abrasion Resistance100 U.; 5.4 N; CS-10 F20.0 to 30.0% HazeISO 93523 kg, reduced luminance22.0cd/lx/m²DIN 5234Fire RatingB2, Normally flammableDIN 4102Smoke Gas CorrosivenessNon-corrosiveVDE 0482	
Tensile Modulus3300MPaISO 527-4Abrasion Resistance100 U.; 5.4 N; CS-10 F20.0 to 30.0% HazeISO 93523 kg, reduced luminance22.0cd/lx/m²DIN 5234Fire RatingB2, Normally flammableDIN 4102Smoke Gas CorrosivenessNon-corrosiveVDE 0482	bod
Abrasion Resistance   100 U; 5.4 N; CS-10 F   20.0 to 30.0   % Haze   ISO 9352     3 kg, reduced luminance   22.0   cd/lx/m²   DIN 5234     Fire Rating   B2, Normally flammable   DIN 4102     Smoke Gas Corrosiveness   Non-corrosive   VDE 0482	
100 U.; 5.4 N; CS-10 F20.0 to 30.0% HazeISO 93523 kg, reduced luminance22.0cd/lx/m²DIN 5234Fire RatingB2, Normally flammableDIN 4102Smoke Gas CorrosivenessNon-corrosiveVDE 0482	.2
3 kg, reduced luminance 22.0 cd/lx/m² DIN 5234   Fire Rating B2, Normally flammable DIN 4102   Smoke Gas Corrosiveness Non-corrosive VDE 0482	
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 <sup>2</sup> 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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

