# PLEXIGLAS® Tube GS

### Polymethyl Methacrylate Acrylic

#### **Evonik Industries AG**

#### Message:

PLEXIGLAS® XT rods and tubes are the clearest extruded tubes on the market today delivering brilliant quality, superior performance, and durability. PLEXIGLAS® XT rods and tubes are characterized by their flawless optics, and perfectly smooth surface free of striations.

PLEXIGLAS® GS tubes are produced in the cast rotation process. Cast rods and square rods are made of casted semi-finished products. All cast forms have polished surfaces.

Applications

Due to the above characteristics PLEXIGLAS® rods and tubes are ideally suitable for.

Architectural interior & exterior lighting.

Contemporary furniture.

Luxury brand merchandizing, store fixtures, P.O.P. & trade show displays

Industrial pneumatic delivery and conveying systems

Decorative architectural features

Machinable   Adhesiveness     Good weather resistance   Durability     Compliance of Food Exposure   Good appearance     High hardness   High hardness     Uses   Displays     Lighting Applications   Conveyor     Industrial application   Furmiture     Pneumatic application   Equation     Furmiture   Pneumatic application     Processing Method   Marinal Value     Physical   Nominal Value     Nominal Value   Unit	General Information					
Adhesiveness   Good weather resistance     Durability   Compliance of Food Exposure     Good appearance   High hardness     High hardness   Conveyor     Industrial applications   Conveyor     Industrial application   Furniture     Pneumatic application   Furniture     Processing Method   Furniture     Pipe   Furniture     Pipe   Furniture     Pipe   Furniture     Pipe   Furniture <th>Features</th> <th>Recyclable materials</th> <th></th> <th></th>	Features	Recyclable materials				
Good weather resistance   Durability     Compliance of Food Exposure   Good appearance     Good appearance   High hardness     Uses   Displays     Lighting Applications   Conveyor     Industrial application   Furniture     Pneumatic application   Furniture     Pheerance   Available colors     Clear/transparent   Clear/transparent     Processing Method   Thermoforming     Physical   Nominal Value   Unit		Machinable				
Durability   Compliance of Food Exposure   See Subsective   See Subsective		Adhesiveness				
Compliance of Food Exposure   Good appearance   High hardness     Uses   Displays   Ighting Applications   Ighting Applications     Conveyor   Industrial application   Furniture   Industrial application     Precessing Method   Nominal Value   Unit   Test Method		Good weather resistance				
Good appearance   High hardness   Uses Displays   Lighting Applications   Conveyor   Industrial application   Furniture   Pneumatic application   Decorative parts   Appearance   Available colors   Clear/transparent   Forms Bar   Pipe   Processing Method   Nominal Value Unit   Test Method		Durability				
High hardness     Uses   Displays     Lighting Applications     Conveyor     Industrial application     Furniture     Pneumatic application     Experiment     Clear/transparent     Forms     Bar     Pipe     Processing Method     Nominal Value   Unit     Ventod		Compliance of Food Exposure				
Uses   Displays     Lighting Applications     Conveyor     Industrial application     Furniture     Pneumatic application     Decorative parts     Appearance     Available colors     Clear/transparent     Forms     Bar     Pipe     Processing Method     Thermoforming     Mominal Value   Unit		Good appearance				
Lighting Applications Conveyor Industrial application Furniture Pneumatic application Decorative parts Appearance Available colors Clear/transparent Forms Bar Pipe Processing Method Thermoforming Processing Method Nominal Value Unit Test Method		High hardness				
Lighting Applications Conveyor Industrial application Furniture Pneumatic application Decorative parts Appearance Available colors Clear/transparent Forms Bar Pipe Processing Method Thermoforming Processing Method Nominal Value Unit Test Method						
ConveyorIndustrial applicationFurniturePneumatic applicationDecorative partsAppearanceAvailable colors Clear/transparentFormsBar PipePipeProcessing MethodThermoformingPhysicalNominal ValueUnitTest Method	Uses	Displays				
Industrial applicationFurniturePneumatic applicationDecorative partsAppearanceAvailable colors Clear/transparentFormsBar PipeProcessing MethodThermoformingPhysicalNominal ValueUnitTest Method		Lighting Applications				
Furniture Pneumatic application Decorative partsSecond to the partsAppearanceAvailable colors Clear/transparentSecond to the partsFormsBar PipeSecond to the partsProcessing MethodThermoformingPhysicalNominal ValueUnitTest Method		Conveyor				
Pneumatic application Decorative parts     Appearance   Available colors Clear/transparent     Forms   Bar Pipe     Processing Method   Thermoforming     Physical   Nominal Value   Unit		Industrial application				
Decorative parts     Appearance   Available colors     Clear/transparent     Forms   Bar     Pipe     Processing Method   Thermoforming     Physical   Nominal Value   Unit     Test Method   Test Method		Furniture				
Appearance   Available colors     Clear/transparent   Clear/transparent     Forms   Bar     Pipe   Pipe     Processing Method   Thermoforming     Physical   Nominal Value   Unit		Pneumatic application				
Clear/transparent     Forms   Bar     Pipe     Processing Method   Thermoforming     Physical   Nominal Value   Unit   Test Method		Decorative parts				
Clear/transparent     Forms   Bar     Pipe     Processing Method   Thermoforming     Physical   Nominal Value   Unit   Test Method						
Forms Bar   Pipe   Processing Method   Thermoforming   Physical Nominal Value   Unit Test Method	Appearance					
Pipe   Processing Method Thermoforming   Physical Nominal Value Unit Test Method		Clear/transparent				
Pipe   Processing Method Thermoforming   Physical Nominal Value Unit Test Method	Forms	Bar				
Processing Method Thermoforming   Physical Nominal Value Unit Test Method						
Physical Nominal Value Unit Test Method						
	Processing Method	Thermoforming				
Density 1.19 g/cm <sup>3</sup> ISO 1183	Physical	Nominal Value	Unit	Test Method		
	Density	1.19	g/cm³	ISO 1183		

Water absorption-24 h, 23°C <sup>1</sup>	41.0	mg	ISO 62
Cold bending-Minimum radius	330 x thickness		
Maximum Service Temperature		°C	
Smoke Gas Corrosiveness	None		
Smoke Gas Volume	Very Low		DIN 4102
Smoke Toxicity	None		DIN 53436
UV Transmittance	No		
Ignition Point	425	°C	DIN 51794
Surface Temperature - IR-radiator		°C	
Weight Gain - during immersion <sup>2</sup>		%	ISO 62
Forming Temperature			
	160 - 175	°C	
Reverse	> 80	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress <sup>3</sup>			ISO 527-2/5
-40°C	110	MPa	ISO 527-2/5
23°C	80.0	MPa	ISO 527-2/5
70°C	40.0	MPa	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	15	kJ/m²	ISO 179/1fU
Notched Izod Impact	1.6	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	115	°C	ISO 306/B
CLTE - Flow (0 to 50°C)	7.0E-5	cm/cm/°C	DIN 53752-A
Optical	Nominal Value	Unit	Test Method
Transmittance	92.0	%	DIN 5036
Additional Information	Nominal Value	Unit	Test Method
Reflection loss in the visible range (for ea Absorption in visible range : <0.05%	ch surface) : 4%		
NOTE			
1.	Method 1, specimen 60 x 60 x 2mm³		
2.	Method 1		
3.	Туре 1В		

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