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

General Information	
Features	Recyclable materials
	Machinable
	Adhesiveness
	Good weather resistance
	Durability
	Compliance of Food Exposure
	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	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm³	ISO 1183

Water absorption-24 h, 23°C [1]	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 [2]		%	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 [3]			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/m^2	ISO 179/1fU
Notched Izod Impact	1.6	kJ/m^2	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 each surface) : 4% Absorption in visible range : <0.05%			
NOTE			
1.	Method 1, specimen 60 x 60 x 2mm³		
2.	Method 1		
3.	Type 1B		

Recommended distributors for this material

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