

PLEXIGLAS® Tube XT

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/cm ³	ISO 1183

Water absorption-24 h, 23°C ¹	38.0	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	Yes		
Ignition Point	430	°C	DIN 51794
Surface Temperature - IR-radiator		°C	
Weight Gain - during immersion ²		%	ISO 62
Forming Temperature			
--	150 - 160	°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	72.0	MPa	ISO 527-2/5
70°C	35.0	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	103	°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
Yellowing : <0.5% (DIN 5036)			
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 2mm ³		
2.	Method 1		
3.	Type 1B		

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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

