

Technical Data Sheet

Dongguan Wetop Craft Co., Ltd

PMMA - Polymethyl Methacrylate

Product Model: WT-Acrylic

TDS No.: WT-Acrylic-002

Issue Date: 2024-10-05

Revision Date: 2025-02-05

Version: V1.1

i General Information

Property	Description
Features	<ul style="list-style-type: none">• Excellent Transparency• Outstanding Weather Resistance• Excellent Surface Scratch Resistance
Application	General Purpose
Appearance	Clear / Transparent
Form	Pellets / Resin
Processing Method	Casting

Mechanical Properties

Property	Test Method	Condition	Unit	Typical Value
Tensile Strength	GB/T 1040.1-2018	5mm/min	MPa	71.5
Tensile Modulus	GB/T 1040.1-2018	1mm/min	MPa	2980
Elongation at Break	GB/T 1040.1-2018	5mm/min	%	4.9
Flexural Strength	GB/T 9341-2008	1mm/min	MPa	123
Charpy Impact Strength, Unnotched	GB/T 1043.1-2008	2.9m/s	kJ/m ²	17

Thermal Properties

Property	Test Method	Condition	Unit	Typical Value
Vicat Softening Temperature	GB/T 1633-2000	B50	°C	107
Heat Deflection Temperature (HDT)	GB/T 1634.1-2019	1.80 MPa, 120°C/h	°C	97
Coefficient of Linear Thermal Expansion (CLTE)	GB/T 36800.2-2008	23~80°C	$\times 10^{-6} / ^\circ\text{C}$	7.0

Optical Properties

Property	Test Method	Condition	Unit	Typical Value
Transmittance	GB/T 2410-2008	3mm	%	93.5
Haze	ISO 14782	3mm	%	<0.5

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