

# Aristech Acrysteel® M

Acrylic  
Aristech Acrylics LLC

## Message:

Aristech Acrylics LLC Acrysteel® M is a continuous cast partially cross-linked impact acrylic sheet designed specifically for marine applications. The following physical properties were determined using 0.150" (3.81 mm) thickness Aristech Acrylics LLC Acrysteel® M acrylic sheet. Properties may vary somewhat for other thicknesses and/or between opaque colors.

General Information			
UL YellowCard	E87207-252291		
Features	Crosslinkable		
	Good Impact Resistance		
Uses	Marine Applications		
Appearance	Opaque		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	1.18	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D4802
Flow : 3.81 mm	2.2	%	
Across Flow : 3.81 mm	1.9	%	
Water Absorption (Saturation, 3.81 mm)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 3.81 mm)	88		ASTM D785
Barcol Hardness (3.81 mm)	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.81 mm)	2870	MPa	ASTM D638
Tensile Strength (Yield, 3.81 mm)	57.0	MPa	ASTM D638
Tensile Elongation (Break, 3.81 mm)	14	%	ASTM D638
Flexural Modulus (3.81 mm)	2730	MPa	ASTM D790
Flexural Strength (3.81 mm)	94.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (3.81 mm)	544	J/m	ASTM D6110
Thermal Stability <sup>2</sup> (180°C, 3.81 mm)	No Effect		ASTM D4802
Hot Forming Temperature (3.81 mm)	160 to 182	°C	Internal Method
Notched Izod Impact (3.81 mm)	59	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.81 mm)	80.0	°C	ASTM D648

CLTE - Flow (3.81 mm)	7.2E-5	cm/cm/°C	ASTM D696
NOTE			
1.	0.150 in		
2.	30 min		

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