

Aristech Acrysteel® IMA

Acrylic
Aristech Acrylics LLC

Message:

Aristech Acrylics LLC Acrysteel® IMA is a continuous cast impact acrylic sheet with a matte finish on one side and solvent cementability. The following physical properties were determined using 0.125" (3.17 mm) thickness clear Aristech Acrylics LLC Acrysteel® IMA acrylic sheet. Properties may vary somewhat on other thicknesses and/or colors (translucent or opaque).

General Information			
UL YellowCard	E87207-252291		
Features	Good Impact Resistance		
	Low to No Odor		
	Low to No Taste		
Appearance	Matte Finish		
	Opaque		
	Translucent		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.17	g/cm ³	ASTM D792
Water Absorption (Saturation, 3.18 mm)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 3.18 mm)	80		ASTM D785
Barcol Hardness (3.18 mm)	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.18 mm)	2510	MPa	ASTM D638
Tensile Strength (Yield, 3.18 mm)	51.0	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	10	%	ASTM D638
Flexural Modulus (3.18 mm)	2620	MPa	ASTM D790
Flexural Strength (3.18 mm)	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (3.18 mm)	587	J/m	ASTM D6110
Thermal Stability ² (180°C, 3.18 mm)	No Effect		ASTM D4802
Hot Forming Temperature (3.18 mm)	171 to 193	°C	Internal Method
Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256A
Instrumented Dart Impact ³ (4.75 mm)	21.7	J	Internal Method
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	82.2	°C	ASTM D648
CLTE - Flow (3.18 mm)	7.6E-5	cm/cm/°C	ASTM D696
Thermal Conductivity ⁴	0.20	W/m/K	Internal Method
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index ⁵	1.490		ASTM D542
Transmittance (3180 μm)	91.0	%	ASTM D1003
Yellowness Index			ASTM D1925
3.18 mm	1.8	YI	
4.75 mm	2.0	YI	
5.59 mm	2.2	YI	

NOTE			
1.	0.125 in		
2.	30 min		
3.	FTMS 406-M-1074		
4.	0.125 in		
5.	0.125 in		

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