

Aristech Acrysteel® IGP

Acrylic
Aristech Acrylics LLC

Message:

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

General Information			
UL YellowCard	E87207-252291		
Features	Cleanable		
	Good Abrasion Resistance		
	Good Weather Resistance		
	High Gloss		
	High Hardness		
	High Heat Resistance		
	High Impact Resistance		
	High Stiffness		
	Paintable		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm³	ASTM D792
Water Absorption (Equilibrium, 3.17 mm)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.17 mm)	2510	MPa	ASTM D638
Tensile Strength (3.17 mm)	51.0	MPa	ASTM D638
Tensile Elongation (Break, 3.17 mm)	10	%	ASTM D638
Flexural Modulus	2620	MPa	ASTM D790
Flexural Strength	93.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	58	kJ/m²	ASTM D6110
Notched Izod Impact	43	J/m	ASTM D256
Instrumented Dart Impact (4.75 mm)	21.7	J	FTMS 406-M-1074
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	82.2	°C	ASTM D648

CLTE - Flow (3.17 mm)	7.6E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.20	W/m/K	Internal Method
Thermal Stability - 30 minutes @ 180°C	No Effect		ASTM D4802
Hot Forming Temperature (3.17 mm)	171 to 193	°C	Internal Method
Odor	None		
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance	92.8	%	ASTM D1003
Haze ¹ (3180 μm)	2.5	%	ASTM D1003
Yellowness Index			ASTM D1925
3.17 mm	1.8	YI	
4.75 mm	2.0	YI	
5.58 mm	2.2	YI	
NOTE			
1.	23.9°C		

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