

Aristech ALTAIR PLUS® (0.275 inch)

Acrylonitrile Butadiene Styrene + Acrylic (PMMA)

Aristech Acrylics LLC

Message:

Aristech Acrylics LLC Altair Plus® is a composite engineered material which has the exceptional surface properties, weathering characteristics and aesthetics of Aristech Acrylics LLC Opaque Continuous Cast Acrylic and a substrate that imparts outstanding impact resistance and thermoformability.

General Information			
UL YellowCard	E87207-252288		
Features	Good Surface Finish		
	Good Weather Resistance		
	High Impact Resistance		
	Low to No Odor		
	Low to No Taste		
	Pleasing Surface Appearance		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.10	g/cm ³	ASTM D792
Water Absorption (Saturation, 6.99 mm)	0.19	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 6.99 mm)	97		ASTM D785
Barcol Hardness (6.99 mm)	52		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (6.99 mm)	2620	MPa	ASTM D638
Tensile Strength (Yield, 6.99 mm)	44.8	MPa	ASTM D638
Tensile Elongation (Break, 6.99 mm)	5.0	%	ASTM D638
Flexural Modulus			ASTM D790
6.99 mm ²	2160	MPa	
6.99 mm ³	2140	MPa	
Flexural Strength			ASTM D790
6.99 mm ⁴	74.5	MPa	
6.99 mm ⁵	68.9	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.99 mm)	130	J/m	ASTM D256A
Instrumented Dart Impact ⁶ (6.99 mm)	> 40.7	J	Internal Method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.99 mm)	89.4	°C	ASTM D648
CLTE - Flow (6.99 mm)	7.9E-5	cm/cm/°C	ASTM D696

Flammability	Nominal Value		Test Method
Flame Rating (6.99 mm)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Cycles Freeze-Thaw - 50 (-29 to 82°C, 6.99 mm)	No Effect		Internal Method
Hot Forming Temperature			Internal Method
ABS Side : 6.99 mm	149 to 171	°C	
Acrylic Side : 6.99 mm	177 to 193	°C	
NOTE			
1.	0.275 in		
2.	Acrylic in Tension		
3.	Acrylic in Compression		
4.	Acrylic in Tension		
5.	Acrylic in Compression		
6.	FTMS 406-M-1074		

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