Aristech ALTAIR PLUS® (0.350 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/cm³	ASTM D792
Water Absorption (Saturation, 8.89 mm)	0.20	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale, 8.89 mm)	90 to 100		ASTM D785
Barcol Hardness (8.89 mm)	48 to 52		ASTM D2583
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (8.89 mm)	2410	MPa	ASTM D638
Tensile Strength (Yield, 8.89 mm)	42.1	MPa	ASTM D638
Tensile Elongation (Break, 8.89 mm)	6.2	%	ASTM D638
Flexural Modulus			ASTM D790
8.89 mm [2]	2230	MPa	
8.89 mm [3]	2310	MPa	
Flexural Strength			ASTM D790
8.89 mm [4]	73.8	MPa	
8.89 mm [5]	61.4	MPa	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (8.89 mm)	170	J/m	ASTM D256A
Instrumented Dart Impact [6] (8.89 mm)	73.2	J	Internal Method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 8.89 mm)	89.4	°C	ASTM D648
CLTE - Flow (8.89 mm)	7.7E-5	cm/cm/°C	ASTM D696

Flammability	Nominal Value		Test Method
Flame Rating (8.89 mm)	HB		UL 94
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Cycles Freeze-Thaw - 50 (-29 to 82°C, 8.89 mm)	No Effect		Internal Method
Hot Forming Temperature			Internal Method
ABS Side : 8.89 mm	149 to 171	°C	
Acrylic Side : 8.89 mm	177 to 193	°C	
NOTE			
1.	0.350 in		
2.	Acrylic in Tension		
3.	Acrylic in Compression		
4.	Acrylic in Tension		
5.	Acrylic in Compression		
6.	FTMS 406-M-1074		

Recommended distributors for this material

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WECHAT