

Aristech S-300

Acrylic
Aristech Acrylics LLC

Message:

Aristech Acrylics LLC Acrylic Sheet S-300 is a "cross linked" commercial continuous cast acrylic sheet derived from a unique formulation. Aristech Acrylics LLC Acrylic Sheet S-300 has exceptional thermoformability and solvent resistance. The following physical properties were determined using 0.125" (3.17 mm) thickness clear S-300 Aristech Acrylics LLC Acrylic Sheet. Properties may vary somewhat on other thicknesses and/or colors (translucent, transparent or opaque).

General Information			
Features	Crosslinkable		
	Good Thermal Stability		
	Low to No Odor		
	Low to No Taste		
	Solvent Resistant		
Appearance	Clear/Transparent		
	Opaque		
	Translucent		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.19	g/cm ³	ASTM D792
Water Absorption (Saturation, 3.18 mm)	0.24	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 3.18 mm)	102		ASTM D785
Barcol Hardness (3.18 mm)	50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.18 mm)	3170	MPa	ASTM D638
Tensile Strength (Yield, 3.18 mm)	73.1	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	4.0	%	ASTM D638
Flexural Modulus (3.18 mm)	3100	MPa	ASTM D790
Flexural Strength (3.18 mm)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (3.18 mm)	246	J/m	ASTM D6110
Thermal Stability ² (180°C, 3.18 mm)	No degradation		ASTM D4802
UV Transmittance ³ (250 to 370 nm)	< 1.0	%	
Hot Forming Temperature (3.18 mm)	171 to 193	°C	Internal Method
Notched Izod Impact (3.18 mm)	21	J/m	ASTM D256A

Instrumented Dart Impact ⁴ (3.18 mm)	4.07	J	Internal Method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	97.2	°C	ASTM D648
CLTE - Flow (3.18 mm)	7.4E-5	cm/cm/°C	ASTM D696
Specific Heat ⁵	1460	J/kg/°C	ASTM C351
Thermal Conductivity ⁶	0.20	W/m/K	Internal Method
Flammability	Nominal Value	Unit	Test Method
Burning Rate (3.18 mm)	19	mm/min	ASTM D635
Optical	Nominal Value	Unit	Test Method
Refractive Index ⁷	1.490		ASTM D542
Transmittance			ASTM D1003
3180 μm ⁸	93.0	%	
3180 μm ⁹	93.0	%	
Haze			ASTM D1003
3180 μm ¹⁰	0.90	%	
3180 μm ¹¹	0.80	%	
Yellowness Index ¹² (3.18 mm)	0.48	YI	ASTM D1925
NOTE			
1.	0.125 in		
2.	30 min		
3.	UV Spectrophotometer		
4.	FTMS 406-M-1074		
5.	0.125 in		
6.	0.125 in		
7.	0.125 in, Unaged		
8.	Aged		
9.	Unaged		
10.	Aged		
11.	Unaged		
12.	Aged		

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