

Aristech Quarite®

Acrylic
Aristech Acrylics LLC

Message:

Aristech Quarite® is an Acrylic material. It is available in North America for thermoforming.

Important attributes of Aristech Quarite® are:

Flame Rated

Low to No Odor/Taste

General Information			
UL YellowCard	E87207-252295		
Features	Low to No Odor		
	Low to No Taste		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.19	g/cm ³	ASTM D792
Water Absorption ² (Saturation, 3.30 mm)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness ³ (M-Scale, 3.30 mm)	90 to 100		ASTM D785
Barcol Hardness ⁴ (3.30 mm)	48 to 52		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ⁵ (3.30 mm)	3420	MPa	ASTM D638
Tensile Strength ⁶ (Yield, 3.30 mm)	66.9	MPa	ASTM D638
Tensile Elongation ⁷ (Break, 3.30 mm)	4.6	%	ASTM D638
Flexural Modulus ⁸ (3.30 mm)	3250	MPa	ASTM D790
Flexural Strength ⁹ (3.30 mm)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹⁰ (3.30 mm)	21	J/m	ASTM D256A
Instrumented Dart Impact ¹¹	3.80	J	Internal Method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹² (1.8 MPa, Unannealed, 3.30 mm)	87.2	°C	ASTM D648
CLTE - Flow ¹³ (3.30 mm)	6.7E-5	cm/cm/°C	ASTM D696
Specific Heat ¹⁴	1460	J/kg/°C	ASTM C351
Thermal Conductivity ¹⁵	0.20	W/m/K	Internal Method
Thermal Stability ¹⁶ (180°C, 3.18 to 3.43 mm)	No Effect		ASTM D4802
Hot Forming Temperature (3.18 to 3.43 mm)	177 to 193	°C	Internal Method
Flammability	Nominal Value		Test Method

Flame Rating ¹⁷ (3.30 mm)	HB	UL 94
NOTE		
1.	0.125 to 0.135 in	
2.	0.125 to 0.135 in	
3.	0.125 to 0.135 in	
4.	0.125 to 0.135 in	
5.	0.125 to 0.135 in	
6.	0.125 to 0.135 in	
7.	0.125 to 0.135 in	
8.	0.125 to 0.135 in	
9.	0.125 to 0.135 in	
10.	0.125 to 0.135 in	
11.	0.125 to 0.135 in, FTMS 406 M-1074	
12.	0.125 to 0.135 in	
13.	0.125 to 0.135 in	
14.	0.125 to 0.135 in	
15.	0.125 to 0.135 in	
16.	30 min	
17.	0.125 to 0.135 in	

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