

Aristech Quarite Plus®

Acrylic
Aristech Acrylics LLC

Message:

Aristech Quarite Plus® is an Acrylic material. It is available in North America for thermoforming.
Important attributes of Aristech Quarite Plus® are:
Flame Rated
Low to No Odor/Taste

General Information			
UL YellowCard	E87207-252289		
Features	Low to No Odor		
	Low to No Taste		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.10	g/cm ³	ASTM D792
Water Absorption ² (Saturation, 7.11 mm)	0.19	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness ³ (M-Scale, 7.11 mm)	90 to 100		ASTM D785
Barcol Hardness ⁴ (7.11 mm)	48 to 52		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ⁵ (7.11 mm)	2620	MPa	ASTM D638
Tensile Strength ⁶ (Yield, 7.11 mm)	39.3	MPa	ASTM D638
Tensile Elongation ⁷ (Break, 7.11 mm)	3.5	%	ASTM D638
Flexural Modulus ⁸ (7.11 mm)	2230	MPa	ASTM D790
Flexural Strength			ASTM D790
7.11 mm ⁹	81.4	MPa	
7.11 mm ¹⁰	70.3	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹¹ (7.11 mm)	120	J/m	ASTM D256A
Instrumented Dart Impact ¹² (7.11 mm)	> 40.7	J	Internal Method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹³ (1.8 MPa, Unannealed, 7.11 mm)	87.8	°C	ASTM D648
CLTE - Flow ¹⁴ (7.11 mm)	8.1E-5	cm/cm/°C	ASTM D696
Thermal Stability (180°C, 6.99 to 7.24 mm) ¹⁵	No Effect		ASTM D4802
Cycles Freeze-Thaw - 50 (-29 to 82°C, 6.99 to 7.24 mm)	No Effect		Internal Method
Hot Forming Temperature			Internal Method

ABS side : 6.99 to 7.24 mm	300 to 340	
Acrylic side : 6.99 to 7.24 mm	177 to 193	°C
Flammability	Nominal Value	Test Method
Flame Rating ¹⁶ (7.11 mm)	HB	UL 94
NOTE		
1.	0.275 to 0.285 in	
2.	0.275 to 0.285 in	
3.	0.275 to 0.285 in	
4.	0.275 to 0.285 in	
5.	0.275 to 0.285 in	
6.	0.275 to 0.285 in	
7.	0.275 to 0.285 in	
8.	0.275 to 0.285 in, Acrylic in Tension	
9.	0.275 to 0.285 in, Acrylic in Tension	
10.	0.275 to 0.285 in, Acrylic in Compression	
11.	0.275 to 0.285 in	
12.	0.275 to 0.285 in, FTMS 406 M-1074	
13.	0.275 to 0.285 in	
14.	0.275 to 0.285 in	
15.	30 min	
16.	0.275 to 0.285 in	

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