



TECHNICAL BULLETIN 305

## Physical Properties Quarite® and Quarite Select®

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD
<b>General:</b>			
Thickness	.125 -.135 (3.2 - 3.4)	Inch (mm)	—
Specific Gravity	1.19	—	ASTMD-792
<b>Mechanical:</b>			
Tensile Strength	9,700 (66.9)	psi (MPa)	ASTMD-638
Tensile Modulus	495,800 (3,418)	psi (MPa)	ASTMD-638
Elongation	4.6	%	ASTMD-638
Flexural Strength	15,700 (108.2)	psi (MPa)	ASTMD-790
Flexural Modulus	471,200 (3,248)	psi (MPa)	ASTMD-790
Notched Izod Impact	0.4 (2.1)	Ft.lbs./in.of notch (kJ/m <sup>2</sup> )	ASTMD-256(Method A)
Falling Dart Impact	2.8 (3.8)	Ft.lbs. (J)	FTMS 406M-1074
Rockwell Hardness (M)	90 - 100	—	ASTMD-785
Barcol Hardness	48 - 52	—	ASTMD-2583
<b>Thermal:</b>			
Hot Forming Temperature	350-380 (177-193)	°F (°C)	Aristech Method
DTUL @ 264 psi (1.82 MPa)	189 (87.2)	°F (°C)	ASTMD-648
Thermal Conductivity	1.4 (20.2)*	Btu/(h·ft <sup>2</sup> ·°F/in) (W/(m <sup>2</sup> ·K/cm))	Cinco-Finch
Specific Heat 77°F (25°C)	0.35 (1465)*	Btu/(lb·°F) (J/(kg·K))	ASTMC-351
Coefficient of Thermal Expansion	.000037 (.000067)	in./in./°F (cm/cm/°C)	ASTMD-696
Thermal Stability 30 min. @ 356°F (180°C)	No Effect	—	ASTMD-4802
Flammability	94 HB	—	UL Test # 94
<b>Miscellaneous:</b>			
Water Absorption	.30	%	ASTMD-570
Odor	None	—	—
Taste	None	—	—

\* Approximate values — Actual to be determined.

*For cautions and other information relating to handling of an exposure to this product, please see the applicable material safety data sheet published by Aristech Surfaces*

These instructions are based upon experience with Aristech Surfaces products only. Experience with products of other manufacturers is specifically disclaimed. For most uses, check for local code approval and test for application suitability. These procedures, techniques and suggested materials should only be used by personnel who are properly trained in the safe handling of the chemicals and the equipment with which they are working. Avoid aromatic solvents, clean with mild soap and water, avoid abrasives. These suggestions are based on information believed to be reliable, however, Aristech Surfaces makes no warranty, guarantee, or representation and assumes no obligations or liability as to the absolute correctness or sufficiency of any of the foregoing, or that additional or other measures may not be required under particular conditions or circumstances.

