

# Tile Material Data Sheet

## Two-wall polycarbonate panels used as Ceiling Tiles

Polargy uses two-wall sheets made of polycarbonate resin for ceiling tiles. The sheet combines the properties of high thermal insulation and light transmission, low weight with high stiffness, and impact resistance. Polargy uses two suppliers for the two-wall sheets, Sabic and Palram. Sabic Innovative Plastics brands their two-wall sheets as Verolite, and Palram Americas Inc. brands their two-wall sheets as Sunlite.

Parameters for meeting Class A Flame Spread and Smoke Developed Classification:

Flame Spread: 0 through 25  
 Smoke Developed: Less than or equal to 450

Both Sabic and Palram two-wall sheets meet the Class A parameters.

### 6mm

Test Specimen: LTC2R6, LTD2R6, LTT2R6, LTC2G6, LTM2R6, LTT2M6, LTR2R6, VC20613, VD20613, VCG0613, VTG0613, VCM0613, VTM0613, VT20613, VTR0613

Test Standard: Modified\* ASTM E84-05

Test Date: April 15, 2008

Test Sponsor: SABIC Innovative Plastics

Test Results: FLAME SPREAD INDEX = 0  
 SMOKE DEVELOPED INDEX = 85  
 = N/A ft. Beyond Burners Centerline

3149389SAT-002

**SCOPE OF WORK**  
 ASTM E84 TESTING ON 6MM SUNLITE / THERMAGLAS

**TEST REPORT FOR PALRAM AMERICAS, INC.**  
 Report No.: K5959.02-121-24  
 Date: 03/03/20

**REPORT ISSUED TO**  
**PALRAM AMERICAS, INC.**  
 9735 Commerce Circle  
 Kutztown, Pennsylvania 19530

#### SUMMARY OF TEST RESULTS

Specimen I.D.: 6mm Sunlite / Thermaglas by Palram Americas, Inc.

#### ASTM E84 Test Results

FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
0	300

### 8mm

Test Specimen: LTC2R8, LTD2R8, LTT2R8, LTR2R8, VC20817, VD20817, VCG0817, VTG0817, VCM0817, VTM0817, VT20817, VTR0817

Test Standard: Modified\* ASTM E84-05

Test Date: April 15, 2008

Test Sponsor: SABIC Innovative Plastics

Test Results: FLAME SPREAD INDEX = 10  
 SMOKE DEVELOPED INDEX = 450  
 = N/A ft. Beyond Burners Centerline

3149389SAT-003

REPORT NUMBER: 102619261COQ-001b  
 ORIGINAL ISSUE DATE: September 22, 2016  
 REVISION DATE: September 23, 2016

EVALUATION CENTER  
 Intertek Testing Services NA Ltd.  
 1500 Briggantine Drive  
 Coquitlam, B.C. V3K 7C1

#### RENDERED TO

Palram Americas Inc.  
 9735 Commerce Circle  
 Kutztown, PA 19530

PRODUCT EVALUATED: 8mm Sunlite / Thermaglas Multiwall polycarbonate Panels  
 EVALUATION PROPERTY: Surface Burning Characteristics

#### (A) Flame Spread

The resultant flame spread index is as follows:  
 (Index rounded to nearest 5)

Sample Material	Flame Spread	Flame Spread Index
8mm Sunlite / Thermaglas Multiwall polycarbonate Panels	4	5

#### (B) Smoke Developed

The areas beneath the smoke developed curve and the related indexes are as follows:  
 (For smoke developed indexes 200 or more, index is rounded to the nearest 50. For smoke developed indexes less than 200, index is rounded to nearest 5)

Sample Material	Smoke Developed	Smoke Developed Index
8mm Sunlite / Thermaglas Multiwall polycarbonate Panels	311	300