



Architectural Window Film

Data Sheet

SolarZone™ Interior **PerLite™ 20, 35, 50, 70**

Introduction

PerLite is a highly durable, ceramic-based film, manufactured by depositing semi-transparent, advanced ceramic layers on ultra-clear film. The film adds a subtle grey appearance to glazing for an extremely effective reduction in heat gain that preserves the natural view through the glass.

The result achieved by the innovative product structure is more effective heat rejection, with a less reflective appearance.

Typical Usage

- PerLite is the ideal solution for economic energy-saving projects when it's important to preserve views and retain a natural appearance
- PerLite's attractive appearance and solar properties make it the perfect choice for residential, commercial and retail projects

Product Construction

Face: Perlite 20, 35, 50, 70

Adhesive: Pressure sensitive adhesive

Liner: PET

Certificates

Fire Certificate: DIN EN 13501-1: 2010 B-s1, d0



Shelf Life and storage conditions:

When stored in original packaging upon arrival at the customer: 2 years.
Recommended Storage conditions are 20 °C (\pm 2 °C) with 50 %RH (\pm 5%).

Key Features

- Effective heat rejection, with a less reflective appearance
- Advanced ceramic, metalloid coatings provides a form of spectral selectivity giving relatively high reflectivity in the Infra-Red (IR) region of the electromagnetic (EM) spectrum and relatively low reflectivity in the Visible light region of the EM spectrum

Film Performance

Warranted Durability in Years:

	PerLite 20	PerLite 35	PerLite 50	PerLite 70
Durability	12	12	12	12



Optical & Solar Properties

Glazing Unit: Pane Single Clear 3mm	PerLite 20	PerLite 35	PerLite 50	PerLite 70
Visible Light Transmitted %	22	40	51	68
Visible Light Reflected - Interior %	24	15	16	9
Visible Light Reflected - Exterior %	25	17	18	10
UV Block %	99	99	99	99
Total Solar Energy Reflected %	29	17	20	10
Total Solar Energy Transmitted %	14	29	40	59
Total Solar Energy Absorbed %	57	54	40	31
Emissivity (Room Side)	0.76	0.82	0.84	0.91
Glare Reduction %	76	56	43	25
Selective InfraRed Reduction %	91	78	67	44
InfraRed Energy Reduction %	74	60	53	33
Shading Coefficient	0.36	0.52	0.60	0.79
Solar Heat Gain Coefficient (G-Value)	0.30	0.45	0.52	0.69
U-Value Winter (IP)	1.00	1.03	1.04	1.08
U-Value Winter (SI)	5.68	5.85	5.91	6.13
Luminous Efficacy	0.62	0.77	0.85	0.86
Total Solar Energy Rejected	70	55	48	31

Important notice Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use. All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.



Hanita Coatings

Disclaimer and warranty Avery Dennison warrants that its Products meet its specifications. Avery Dennison gives no other express or implied guarantees or warranties with respect to the Products, including, but not limited to, any implied warranties of merchantability, fitness for any particular use and/or non infringement. All Avery Dennison products are sold with the understanding that the purchaser has independently determined the suitability of such products for its purposes. The period of warranty is one (1) year from the date of shipment unless expressly provided otherwise in the product data sheet. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>. Avery Dennison's aggregate liability to Purchaser, whether for negligence, breach of contract, misrepresentation or otherwise, shall in no circumstances exceed the price of the defective, non-conforming, damaged or undelivered Products which give rise to such liability as determined by net price invoices to Purchaser in respect of any occurrence or series of occurrences. In no circumstances shall Avery Dennison be liable to Purchaser for any indirect, incidental or consequential loss, damage or injury, including without limitation, loss of anticipated profits, goodwill, reputation, or losses or expenses resulting from third party claims.