

LLumar® Helios Ceramic Medium

CHE 55 ER HPR

Features and Benefits	Developmental data***	
<ul style="list-style-type: none"> Film Colour / Appearance: Neutral Manufacturer's Limited Warranty*: 7/5 Neutral solar control and privacy exterior grade film Used where an exterior application is critical to provide good heat and glare reduction with a unique combination of low reflectance and neutral daylight colour balance for minimal change to exterior appearance. Ceramic films technology with their low reflectivity help improve the view from the inside, especially at night. Corrosion-resistant window films are well-suited for coastal applications protecting against salt deposits and sea air. Helios technology includes hydrophobic (water resistance), oleophobic (oil resistance) and UV blocking, giving excellent weather resistance and durability Patented coating technology that has resulted in a durable and easy to clean product. Rejects up to 43%* of solar energy, helping reduce heat build-up, and energy costs, increasing occupant comfort. Reduction of hot spots helps increase HVAC efficiency and lower energy costs Shields >99% of UV radiation, helping to reduce fading of valuables, fabrics and furnishings** Reduces glare, which is a contributor to eye fatigue Exterior installation 	Solar Energy Transmission	44%
	Solar Energy Reflection	14%
	Solar Energy Absorption (total)	42%
	Visible Light - Transmission	57%
	Visible Light Reflection (exterior)	11%
	Visible Light Reflection (interior)	9%
	UV Transmission	<1%
	SHGC	0.57
	Shading Coefficient	0.66
	Total Solar Energy Rejected	43%
	Glare Reduction (relative)	37%

* The manufacturer's limited warranty is for 7 years for installation to vertical glazing and 5 years for installation to sloping glazing of 20° or more from horizontal and is valid for exterior installation only; limitations apply as follow. Manufacturer warrants that the product shall conform to Manufacturer's standard specifications. Manufacturer excludes any warranty of any kind, express or implied, with respect to the goods sold hereunder as to merchantability, fitness for a particular purpose or any other matter with respect to the goods whether used alone or in combination with other products. If Buyer establishes a verified breach of this warranty within the Warranty Claim Period (as defined below), then Manufacturer will, at its option and expense, either (A) replace the non-conforming products with conforming products or (B) issue Buyer a credit toward next purchase in the amount of the original price of the non-conforming products. Buyer's failure to so notify Manufacturer of its warranty claim within the Warranty Claim Period will constitute a waiver of such claim regardless of whether the facts giving rise to such claim were discovered or were discoverable during the Warranty Claim Period. The "Warranty Claim Period" means thirty days after Buyer becomes aware, or reasonably should have become aware of the product's failure to conform to Manufacturer's standard specifications. This Warranty is only valid and applicable if product is installed by a qualified installer according to Manufacturer's installation guidelines. Manufacturer hereby excludes and disclaims any and all warranty or liability for defects which are caused by or the result of improper installation.

** Films do not eliminate fading - they reduce it. UV rays and heat are contributing factors to fading, but other factors exist.

***Based on data obtained during product development and subject to change. Data captured using National Fenestration Rating Council's (NFRC) guidelines on single pane, nominal 1/8 inch (3mm) clear glass. Reported values are taken from representative product samples and are subject to normal manufacturing variances. Actual performance will vary based on a number of factors, including glass type and properties.

Installation notes: Please follow Technical Bulletin 73 Installation, sealing and splicing guidelines.

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