



New

### Pilkington **Optitherm™** S3 The latest in thermal insulation

Pilkington **Optitherm™** S3 is an advanced off-line coated product with class leading thermal insulation performance. Incorporated in a standard argon-filled 4mm Insulating Glass Unit (IGU) Pilkington **Optitherm™** S3 provides enhanced thermal insulation ( $U_g = 1.1$ ) and excellent solar transmittance ( $g$ -value 63%) (based on the latest calculation principles defined in EN 673).



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## Pilkington **Optitherm**<sup>TM</sup> S3 - enhanced thermal insulation coated product

Single Glazing Performance	Light			Solar energy					U <sub>g</sub> value (W/m <sup>2</sup> K)
	Transmittance	Reflectance (uncoated surface)	Reflectance (coated surface)	Direct Transmittance	Reflectance (uncoated surface)	Reflectance (coated surface)	Total transmittance (coating on surface 1)	Total transmittance (coating on surface 2)	
4 mm	0.88	0.08	0.06	0.63	0.25	0.28	0.65	0.64	N/A
6 mm	0.88	0.08	0.06	0.61	0.23	0.27	0.64	0.63	N/A
8 mm	0.87	0.08	0.06	0.60	0.21	0.27	0.63	0.62	N/A
10 mm	0.87	0.08	0.06	0.58	0.20	0.27	0.62	0.61	N/A

Insulating Glass Units	Light			Solar energy				U <sub>g</sub> value (W/m <sup>2</sup> K)
	Transmittance	Reflectance (external)	Reflectance (internal)	Direct Transmittance	Reflectance	Absorptance	Total transmittance	
with 4mm Pilkington <b>Optifloat</b> <sup>TM</sup> Clear* outer pane 16mm argon gas filled cavity and Pilkington <b>Optitherm</b> <sup>TM</sup> S3 inner pane								
4 mm	0.80	0.13	0.14	0.55	0.28	0.17	0.63	1.1
6 mm	0.80	0.13	0.14	0.54	0.27	0.19	0.63	1.1
8 mm	0.79	0.13	0.14	0.53	0.27	0.20	0.63	1.1
10 mm	0.79	0.13	0.14	0.51	0.27	0.22	0.62	1.1

\* with reduced iron. Please contact Customer Service for more information about this product.  
Monolithic values given for comparison purposes only. Pilkington **Optitherm**<sup>TM</sup> S3 should only be used in Insulating Glass Units. IGUs based on 90% argon gas fill. Determined in accordance with EN 410 and EN 673



### Product benefits

- The new and improved Pilkington **Optitherm**<sup>TM</sup> S3 meets a true 1.1 U value when incorporated in an Argon-filled Insulating Glass Unit (based on the EN calculation formula)
- Attains a high U<sub>g</sub> value of 1.0 W/m<sup>2</sup>K when used in an Insulating Glass Unit with a 10 mm krypton filled (90%) cavity
- Very neutral reflection and transmission colour with 80% light transmittance, 63% total energy transmittance and 3% emissivity
- Easily manufactured into IGUs, and is readily available in various thicknesses and laminated structures. For details about availability please contact our Customer Services department.
- Can be used in combination with Pilkington **Optilam**<sup>TM</sup> and Pilkington **Optilam**<sup>TM</sup> Phon to attain noise reduction properties in an IGU



CE marking confirms that a product complies with its relevant harmonised European Norm.  
The CE Marking label for each product, including declared values, can be found at [www.Pilkington.com/CE](http://www.Pilkington.com/CE)



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