

# DATA SHEET

## Allied EVA Solar Film



### RAW Material Properties

EVA VA Content		33	VA %
EVA MFI Value		45	MFI
Density		0.95	g/cm <sup>3</sup>
Melting Point		60	° C

### Solar Film Properties

Typical Film Thickness	Thickness gauge	0.45	mm
Surface top/bottom	Embossed and mattfinished		
Film Curing Type			Fast Cure
Crosslinking rate / Gel Content	Soxhlet (Boiling 16h / 250 ° C) ( Drying 2h / 150° C)	>80	%
Adhesive Strength to Glass		>70	N/cm
Water absorption (20C/24h)	ISO 62_200805	0.1	%
Light Transmission	350 - 1200 nm	92 <sup>1</sup>	%
UV cut off		360 <sup>1</sup>	nm
Specific Heat	10° C / 80° C	2.6 / 1.93 <sup>1</sup>	J/g.k
Thermal Conductivity	ISO 22007-4	0.275 <sup>1</sup>	W/mk
Tensile Strain at break <sup>2</sup>		477	%
Tensile Strength <sup>2</sup>		15*	N/mm <sup>2</sup>

### Lamination Properties

Evacuation time	3S Laminator	240	S
Curing temp	3S Laminator	145-150	° C
Curing time	3S Laminator	14	min
Shrinkage	160° C, 5 minutes	<1	%

<sup>1</sup> Measured by Fraunhofer CSP  
<sup>2</sup> After Crosslinking  
\* Properties of cured material