

SiLTRUST® E110

Silicone

Momentive Performance Materials Inc.

Message:

SiLTRUST* encapsulant for photovoltaic cells has optical properties favorable for a higher light-to-electricity conversion yield and excellent mechanical properties that have been shown to withstand extreme exposure conditions during the photovoltaic panel life cycle.

Key Features and Benefits

significant increase in the efficiency and durability of photovoltaic modules compared to traditional modules

potentially longer life span of PV projects may offer longer-term return on investment

extended durability in terms of reduced cell breakage, corrosion protection, damp heat resistance, mitigation of potential induced degradation and thermal cycling robustness

Potential Applications

Encapsulation of crystalline silicon photovoltaic cells in solar modules.

General Information		
Features	Durable	
Uses	Solar Panels	
Appearance	Translucent	
Processing Method	Encapsulating	
Physical	Nominal Value	Unit
Density	1.04	g/cm ³
Hardness	Nominal Value	Unit
Durometer Hardness (Shore A)	20	
Elastomers	Nominal Value	Unit
Tensile Strength	2.00	MPa
Tensile Elongation (Break)	400	%
Electrical	Nominal Value	Unit
Volume Resistivity	3.6E+14	ohms · cm
Electric Strength	37	kV/mm
Optical	Nominal Value	Unit
Refractive Index	1.446	
Transmittance	98.8	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Uncured Properties	Nominal Value	Unit
Color		
-- ¹	Translucent	
-- ²	Translucent	
Density		
-- ³	1.01	g/cm ³
-- ⁴	1.01	g/cm ³

Viscosity		
-- 5	28	Pa·s
-- 6	32	Pa·s
-- 7	34	Pa·s
Curing Time (80°C)	0.17	hr
Pot Life	> 720	min

NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	
5.	Part B	
6.	Mixed	
7.	Part A	

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