

FC Series

NovoVellum® FC05

The reference technology for high quality module manufacturing that offers high light transmission and delivers outstanding photo-thermal stability.

NovoVellum® FC05 is a highly-transparent EVA encapsulant, an excellent encapsulant to use in specific glass-glass applications.

Property features	Test method	Unit	
VA content		%	28
Thickness sheet		µm	200 – 1100
Width sheet		mm	Up to 1450
Core inside diameter		mm	76 or 152
Surface finish			Matt, rough or polished
Packaging			Aluminium bag
Interleaving foil			20µm LDPE, optional
Uncured properties	Test method	Unit	(caliper 460 µm)
OPTICAL PROPERTIES			
Integrated transmission 400 – 800 nm	In house method	%	90
Maximum transmission	In house method	%	91
UV cut off	In house method	nm	360
MECHANICAL PROPERTIES			
Modulus	ISO 527-3	MPa	8
Nominal strain at break	ISO 527-3	%	> 550
Tensile stress at break	ISO 527-3	MPa	6
Hardness Shore A	DIN 53 505	-	65 – 70
Shrinkage	On glass		
130°C		%	8
140°C		%	9
150°C		%	9
OTHER PROPERTIES			
Water vapor transmission rate	ASTM F1249	g/(m ² day)	< 55
Density		g/cm ³	0.96
Cured properties	Test method	Unit	
Electrical properties			
Dielectric strength	ASTM D149-09 meth A		
Dielectric strength		MV/m	55
Breakdown voltage		kV	25
DC resistance of insulating materials	ASTM 257-07		
Volume resistance		Ω	> 3 x 10 ¹¹
Volume resistivity		Ω cm	> 1 x 10 ¹⁴
OTHER PROPERTIES			
Adhesion to glass		N/cm	> 100 *
Gel content	Soxhlet extraction	%	> 80 *

* Value function of cure conditions.