

# VESTAKEEP® Film 0FH81

Polyetheretherketone  
Evonik Industries AG

Message:

VESTAKEEP® film 0FH81 is a cast film based on 100% unreinforced polyether ether ketone (PEEK). The film is amorphous.  
VESTAKEEP® film 0FH81 is designed for thermoforming thin walled parts from the melt. The material features the lowest extrusion related internal stresses possible.  
Applications of the film are cutting edge precision parts made by thermoforming, e.g.:  
housings or battery capsules  
electrical insulation  
heat and chemical protection  
Composite technology  
The low internal stresses of the film allow for walls of lowest thickness tolerance.

General Information			
Features	Amorphous		
Uses	Battery Cases		
	Electronic Insulation		
	Housings		
	Thin-walled Parts		
Forms	Film		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.26	g/cm <sup>3</sup>	ISO 1183
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3/100
Yield	60.0	MPa	
--	120	MPa	
Tensile Elongation (Break)	> 150	%	ISO 527-3/100
Thermal	Nominal Value	Unit	
Glass Transition Temperature <sup>1</sup>	150	°C	
Crystallization Point - Cold	> 165	°C	
Surface Resistance	1.0E+14	ohms	IEC 60093
Volume Resistance	1.0E+14	ohms	IEC 60093
Breakdown Voltage			EN 60243-1
75.0 µm	13500	V	
125.0 µm	17500	V	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Electric Strength			IEC 60243-1
0.0750 mm	190	kV/mm	

0.125 mm	140	kV/mm	
Relative Permittivity			IEC 60250
50 Hz	2.80		
1 kHz	2.90		
1 MHz	2.80		
Dissipation Factor			IEC 60250
1 kHz	3.0E-3		
1 MHz	5.0E-3		
Comparative Tracking Index			IEC 60112
--	200	V	
Solution A <sup>2</sup>	175	V	

#### NOTE

1. 2nd Heating
2. 100 drops value

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#### Recommended distributors for this material

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