VESTAKEEP® Film 0FH90

Polyetheretherketone

Evonik Industries AG

Message:

VESTAKEEP® film 0FH90 is a cast film based on 100% unreinforced polyether ether ketone (PEEK). The film is amorphous with a matte/glossy surface finish.
The material features low extrusion related internal stresses and is ideal to thermoform 3D parts from, e.g. small speaker membranes.
Application examples:
electrical insulation
thermoformed thin parts
loudspeaker membranes
Important notice: Amorphous PEEK film undergoes crystallization at above its glass transition temperature around 150°C. This should be taken into account upon processing as well as in final applications. The crystallization can only be reversed by heating to the melt followed by quenching.

General Information			
Features	Amorphous		
	Electrically Insulating		
	Flame Retardant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Toughness		
	Low Friction		
	Low to No Water Absorption		
	Recyclable Material		
RoHS Compliance	RoHS Compliant		
Forms	Film		
Processing Method	Thermoforming		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.26	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2000	MPa	ISO 527-2
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-3/100
Yield	60.0	MPa	
--	90.0	MPa	
Tensile Elongation (Break)	> 150	%	ISO 527-3/100
Thermal	**Nominal Value**	**Unit**	
Glass Transition Temperature [1]	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 [2]	175	V	

NOTE	
1.	2nd Heating
2.	100 drops value

Recommended distributors for this material

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