MODERN plastics
Setting the Standards

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74-Years in Business in 2019 | ISO 9001:2015 & ISO 13485:2016 Certified

Technical data sheet

SUSTAPVDF (Polyvinylidene fluoride - Kynar® 740)

Product characteristics

- Good strength & stiffness
- High color purity
- Good impact strength

Typical field of application

- Semiconductor industry
- Food processing industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm^3	1.78
Water Absorption 24 hours	D570	%	0.03
Water Absorption Saturation	D570	%	0.05
Dissipation Factor	D150	1 MHz	0.06
Mechanical Properties	**tested method**	**unit**	**value**
Hardness	D785	Shore D	D77
Rockwell Hardness	D785	M	M75
Rockwell Hardness	D785	R	R84
Tensile Strength at yield 73 °F	D638	psi	7,000
Tensile Modulus	D638	psi	250,000
Elongation at Break	D638	%	100
Flexural Strength	D790	psi	8,000
Flexural Modulus	D790	psi	290,000
Compressive Strength	D695	psi	10,500
Shear Strength	D732	psi	-
Izod Impact, Notched	D256	ft-lb/in	3.0
Coefficient of Friction, Dynamic	-	-	0.58
Thermal Properties	**tested method**	**unit**	**value**
CTE, linear	D696	in/in/°F	6.6x10^{-5}
Melting Point	D3418	°F	335
Continuous Use	-	°F	300
Thermal Conductivity	-	in/hr/ft2/F°	0.75
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	270
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	230
Flammability, UL94	-	⅛ inch	V-0
Electrical Properties	**tested method**	**unit**	**value**
Dielectric constant	D150	-	8.5
Surface resistivity	D257	Ohm/cm	>10^{13}
Dielectric strength	D149	V/mil	1600
Compliance Properties	**tested method**	**unit**	**value**
FDA	-	-	Yes
USDA	-	-	Yes

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.