

Specification Sheet

Polyvinylidene Fluoride Pellets

((C₂H₂F₂)_n, Purity: 99.5%)

Stock No: NS6130-12-000144A, CAS: 24937-79-9

Product	:	Polyvinylidene Fluoride Pellets
Stock No	:	NS6130-12-000144A
CAS	:	24937-79-9
Purity	:	99.5%
Molecular Formula	:	(C ₂ H ₂ F ₂) _n
Rheological properties		
Melt volume-flow rate, MVR	:	20 cm ³ /10min
Temperature	:	230 °C
Load	:	5kg
Molding shrinkage, parallel	:	2%
Molding shrinkage, normal	:	2%
Mechanical properties		
Tensile Modulus	:	2300MPa
Yield stress	:	54MPa
Yield strain	:	9%
Nominal strain at break	:	>50%
Charpy impact strength, +23°C	:	192kj/m ²
Charpy impact strength, -30°C	:	208kj/m ²
Charpy notched impact strength, +23°C	:	8kj/m ²
Charpy notched impact strength, -30°C	:	5kj/m ²
Thermal properties		
Melting temperature, 10°C/min	:	168 °C
Glass transition temperature, 10°C/min	:	-40 °C
Temp. of deflection under load,	:	110 °C

1.80 MPa		
Temp. of deflection under load,	:	130 °C
0.45 MPa		
Vicat softening temperature,	:	140 °C
50°C/h 50N		
Coeff. of linear therm. expansion,	:	150 E-6/K
parallel		
Burning Behav. at 1.5 mm nom. thickn.	:	V-0 Class
Thickness tested	:	1.6mm
Yellow Card available	:	Yes
Burning Behav. at thickness h	:	V-0
Thickness tested	:	0.8
Oxygen index	:	43
Electrical properties		
Relative permittivity, 100Hz	:	9
Relative permittivity, 1MHz	:	6
Dissipation factor, 100Hz	:	350 E-4
Dissipation factor, 1MHz	:	2060 E-4
Volume resistivity	:	2E12 Ohm
Other properties		
Water absorption	:	0.03%
Density	:	1780 kg/m ³
Test specimen production		
Injection Molding, melt temperature	:	200 °C
Injection Molding, mold temperature	:	90 °C
Injection Molding, injection velocity	:	10 mm/s
Injection Molding, pressure at hold	:	13 MPa

Main Inspect Verifier : **Manager QC**

Note: Product Specification are subject to amendment and may change over time



Characterization of Polyvinylidene Fluoride Pellets



Polyvinylidene Fluoride Pellets



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