

3M™ Dyneon™ Fluoroplastic PVDF 2066/0002

Features and Benefits

- Highest impact strength of any extrudable 3M PVDF
- Highest melt viscosity of any extrudable 3M PVDF
- High tensile strength

Note: Data in this document are not for specification purposes.

Note: The physical properties of PVDF 2066/0002 filaments depend upon the processing conditions: extrusion, drawing, and annealing of the filaments. The data for this sheet were produced using specimens stamped from extruded strips or injection molded specimens.

Typical Properties

Property	Test Conditions	Test Method	
Form: Pellets			
Color		Visual	Opaque
Melt Flow Index	230°C, 10 kg	ASTM D1238	4-6 g/10 min
Tensile Stress at Yield*	23°C, 50 mm/min	ASTM D638	46 MPa (6,674 psi)
Tensile Stress at Break*	23°C, 50 mm/min	ASTM D638	67 MPa (9,717 psi)
Elongation at Yield*	23°C, 50 mm/min	ASTM D638	9%
Elongation at Break*	23°C, 50 mm/min	ASTM D638	428%
Flexural Modulus*	23°C, 2 mm/min	ASTM D790	1,670 MPa (242,210 psi)
Volatile Matter	5 min/110°C, Thermobalance		<0.2%

*Note: These mechanical properties are based on testing of extruded strips.

Product Description

3M™ Dyneon™ PVDF 2066/0002, a fluoropolymer material, provides an excellent balance of physical properties, processability, surface smoothness, flexibility, and refractive index, allowing for a wide array of gauges for filaments such as fishing line. In addition to the well-established intrinsic characteristics of PVDF such as high strength for a given filament diameter and a refractive index nearly identical to water, PVDF 2066/0002 has improved impact resistance that can provide additional shock strength to filaments.

Storage and Material Handling

PVDF 2066/0002 has 36 month shelf life provided it is stored in a clean, dry place in the original unopened container. PVDF 2066/0002 is hydrophobic, and generally does not require drying before processing unless high humidity conditions create surface moisture adsorption.

Safety/Toxicology

This is a fluoroplastic material so normal precautions observed with fluoroplastics should be followed. Before processing this product, read the Material Safety Data Sheet and label. Follow all precautions and directions for use. General handling/processing precautions include: (1) Process only in well ventilated areas, (2) do not smoke in areas contaminated with powder/residue from these products; (3) avoid eye contact; (4) after handling this product wash any contacted skin with soap and water.

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