Naxtry Future-Driven Manufacturing

CNC Machining | Sheet Metal | Injection Molding | Post-Processing

PVDF stands for Polyvinylidene Fluoride. It is a high-performance thermoplastic material known for its excellent chemical resistance, high thermal stability, and exceptional mechanical properties. PVDF is commonly used in applications that require resistance to harsh chemicals, UV radiation, and high temperatures.

Chemical Description

| Description | Value |
|---------------|---|
| Material Type | Semi-Crystalline Thermoplastic Fluoropolymer |
| Chemical Name | PVDF Polyvinylidene Fluoride |
| Additives | Unfilled |
| Color | Natural White to Off White |
| UV Resistant | Yes |

Mechanical Properties

| Property | Maximum Unless Range is Specified |
|--|--------------------------------------|
| Tensile Strength,ksi | 6.3 |
| Tensile Modulus,ksi | 290 |
| Compressive Strength,ksi | 9 |
| Compressive Modulus,ksi | 160 |
| Flexural Strength,ksi | 9.7 |
| Flexural Modulus,ksi | 290 |
| Elongation at Break | 50% |
| Hardness Shore D | 75 |
| Notched Izod Impact Strength,ft-Ib/in | 3 |

Physical Properties

| Property | Maximum Unless Range is Specified |
|---|--------------------------------------|
| Density,lbs/in3 | 0.064 |
| Water Absorption, 24 hrs, Immersion,% by wt. | 0.03 |
| Coefficient of Linear Thermal | 6.6 |
| Expansion, x10-5 in./in./°F | |
| Heat Deflection Temp,°F at 263psi | 230 |
| Melting Point Temp,°F | 332 |
| Max Continuous Operating | 300 |
| Temp,°F | |
| Minimum Operating Temp,°F | -58 |
| Flammability Rating, UL94 | V-0 |
| Dielectric Strength,V/mil | 1700 |
| Dielectric Constant at 1 MHz | 8.5 |
| Thermal | 1.2 |
| Conductivity,BTU-in/ft ² -hr-°F | |

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.

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