

KF 2950

Polyvinylidene Fluoride

Kureha Corporation

Message:

KF 2950 PVDF homopolymer is a medium viscosity PVDF resin typically processed by extrusion offering: excellent chemical resistance at ambient and elevated temperatures; inherent UV stable; mechanical toughness; and, excellent abrasion resistance.

General Information			
Features	Copolymer		
	High Purity		
	Low Viscosity		
Uses	Piping		
	Tubing		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77 to 1.79	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	4.0 to 8.0	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Solution Viscosity - DMF (30°C)	110	cm ³ /g	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness ¹ (Shore D, 23°C)	77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2120	MPa	ISO 527-2
Tensile Stress (Yield)	54.0	MPa	ISO 527-2
Tensile Strain (Break)	29	%	ISO 527-2
Flexural Modulus	1760	MPa	ISO 178
Flexural Stress	67.0	MPa	ISO 178
Compressive Modulus	1770	MPa	ISO 604
Compressive Stress	65.0	MPa	ISO 604
Taber Abrasion Resistance (1000 Cycles, 1000 g)	32.0	mg	ISO 9352
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area)			ASTM D256
-40°C	2.80	kJ/m ²	
-20°C	3.00	kJ/m ²	
0°C	8.20	kJ/m ²	
20°C	14.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature	-30.0	°C	ASTM D746
Glass Transition Temperature	-35.0	°C	DMA
Vicat Softening Temperature	166	°C	ISO 306/A50
Peak Melting Temperature	172	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	146	°C	ASTM D3418
CLTE - Flow (23 to 80°C)	1.6E-4	cm/cm/°C	ISO 11359-2
Specific Heat (23°C)	1200	J/kg/°C	JIS K7123
Thermal Conductivity (23°C)	0.17	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+14 to 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (0.0340 mm)	300	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	10.0		ASTM D150
Dissipation Factor (1 kHz)	0.020		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (equivalent)	V-0		UL 94
Oxygen Index ²	44	%	ISO 4589-2
Optical	Nominal Value		Test Method
Refractive Index ³	1.420		ASTM D542
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (240°C, 50.0 sec ⁻¹)	2700	Pa·s	ASTM D3835
NOTE			
1.	50N		
2.	Type-IV		
3.	25°C		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

