

FluorLoop® CH08/1001

Polyvinylidene Fluoride

Solvay Specialty Polymers

Message:

FluorLoop® CH08/1001 is typically processed by injection molding, mainly for film extrusion applications.

General Information			
Features	Low viscosity		
	Homopolymer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 - 1.80	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/2.16 kg	5.5 - 11	g/10 min	ASTM D1238
230°C/5.0 kg	16 - 30	g/10 min	ASTM D1238
Water Absorption (23°C, 24 hr)	< 0.040	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C, 2.00 mm)	1800 - 2500	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield, 23°C, 2.00mm	50.0 - 60.0	MPa	ASTM D638
Fracture, 23°C, 2.00mm	30.0 - 50.0	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield, 23°C, 2.00mm	5.0 - 10	%	ASTM D638
Fracture, 23°C, 2.00mm	20 - 300	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	170 - 175	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	134 - 144	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Volume Resistivity	> 1.0E+14	ohms · cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	20 - 25	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 kHz)	7.00 - 10.0		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.200 mm)	V-0		UL 94
Oxygen Index (3.00 mm)	44	%	ASTM D2863
NOTE			
1.	Type 4, 1.0mm/min		
2.	Type 4, 50mm/min		
3.	Type 4, 50mm/min		

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Recommended distributors for this material

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

