

Kynar Flex® 3121-50

Polyvinylidene Fluoride

Arkema

Message:

KYNAR FLEX® 3120-50 is a pelletized semi-crystalline VF2 based copolymer. It can be molded or extruded and has a useful temperature range from -40°C - 150°C. KYNAR FLEX® 3120-50 has a UL RTI of 150°C

KYNAR FLEX® 3121-50 can be used in compounding for wire and cable as well as other extrusion applications.

KYNAR FLEX® 3121-50 is a specially designed powder used as a polymer process aid (PPA) for polyolefins. The use of KYNAR FLEX® 3120-50 or KYNAR FLEX 3121-50 at 200 - 1000 ppm levels reduces extruder pressure, improves surface finish, reduces die build up, and improves gauge control.

General Information			
Features	Semi Crystalline		
Uses	Wire & Cable Applications		
Forms	Powder		
Processing Method	Compounding		
	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.76 to 1.79	g/cm³	ASTM D792

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	65 to 70		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	24.1 to 34.5	MPa	
Break, 23°C	34.5 to 48.3	MPa	
Tensile Elongation (Break, 23°C)	300 to 550	%	ASTM D638
Flexural Modulus (23°C)	621 to 827	MPa	ASTM D790
Flexural Strength (23°C)	20.7 to 34.5	MPa	ASTM D790
Compressive Strength (23°C)	31.0 to 41.4	MPa	ASTM D695

Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	161 to 168	°C	ASTM D3418

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ¹ (20°C)	2.0E+14	ohms · cm	ASTM D257

Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (232°C, 100 sec^-1)	2000 to 2600	Pa · s	ASTM D3835

NOTE			
1.	65% R.H.		

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