Wednesday, May 13, 2026

Electrafil® PVDF C BK

Techmer Polymer Modifiers - *Polyvinylidene Fluoride*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Features	• Conductive
Appearance	• Black
Processing Method	• Injection Molding

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.83	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	2.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	2.8	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	34.5	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1930	MPa	ASTM D790
Flexural Strength (Yield)	62.1	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	55		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	132	°C	ASTM D648
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
CLTE - Flow	1.2E-4	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	10 to 1.0E+2	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	12	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.8 mm)	V-0		UL 94

Notes

[1] Typical properties: these are not to be construed as specifications.

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