Wednesday, May 13, 2026

HiFill® PEEK 0146 B LE BL316

Techmer Polymer Modifiers - *Polyetheretherketone*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Features	• Low Extractables
Appearance	• Blue
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.52	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (365°C/5.0 kg)	7.5	g/10 min	ASTM D1238
Moisture (175°C)	0.040	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4560	MPa	ASTM D638
Tensile Strength (Yield)	78.6	MPa	ASTM D638
Tensile Strength (Break)	67.6	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	4770	MPa	ASTM D790
Flexural Strength	146	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	75	J/m	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	338 to 371	°C
Middle Temperature	343 to 377	°C
Front Temperature	346 to 379	°C
Nozzle Temperature	349 to 382	°C
Processing (Melt) Temp	343 to 385	°C
Mold Temperature	135 to 177	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.00 to 0.345	MPa
Screw Speed	Slow	

Notes

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

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