Wednesday, May 13, 2026

HiFill® PSU 1700 MR05 BK094

Techmer Polymer Modifiers - *Polysulfone*

Units SI

Action **Legend (Open)**

General Information

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

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60 to 0.80	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength (Yield)	72.4	MPa	ASTM D638
Tensile Strength (Break)	55.2	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	48	J/m	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	135	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	338 to 360	°C
Middle Temperature	343 to 366	°C
Front Temperature	349 to 371	°C
Nozzle Temperature	354 to 377	°C
Processing (Melt) Temp	343 to 377	°C
Mold Temperature	121 to 163	°C
Injection Rate	Moderate	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	Moderate-Fast	

Notes

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

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