Wednesday, May 13, 2026

HiFill® PPSU R5500 BK

Techmer Polymer Modifiers - *Polyphenylsulfone*

Units SI

Action **Legend (Open)**

General Information

Product Description	
PSUM94063	
General	
Material Status	• Commercial: Active
Availability	• North America
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.32	g/cm³	ASTM D792
Molding Shrinkage - Flow (0.203 mm)	0.60	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2480	MPa	ASTM D638
Tensile Strength (Yield)	75.8	MPa	ASTM D638
Tensile Strength (Break)	65.5	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	2620	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	120	J/m	ASTM D256

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	135	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	343 to 371	°C
Middle Temperature	349 to 377	°C
Front Temperature	354 to 382	°C
Nozzle Temperature	360 to 388	°C
Mold Temperature	121 to 177	°C
Insert Molding (Melt) Temperature	349 to 391	°C
Back Pressure	0.172 to 0.517	MPa

Notes

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

powered by PROSPECTOR®

UL LLC ©2026. All rights reserved.

www.ulprospector.com

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.