

HiFill® PPSU R5500 BK

 Techmer Polymer Modifiers - *Polyphenylsulfone*
General Information
Product Description

PSUM94063

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Appearance	<ul style="list-style-type: none"> Black
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.32		ASTM D792
Molding Shrinkage - Flow (0.00800 in)	6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	360000	psi	ASTM D638
Tensile Strength (Yield)	11000	psi	ASTM D638
Tensile Strength (Break)	9500	psi	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	380000	psi	ASTM D790
Flexural Strength	13500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.3	ft·lb/in	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	275	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	650 to 700	°F
Middle Temperature	660 to 710	°F
Front Temperature	670 to 720	°F
Nozzle Temperature	680 to 730	°F
Mold Temperature	250 to 350	°F
Insert Molding (Melt) Temperature	660 to 735	°F
Back Pressure	25.0 to 75.0	psi

