

HiFill FR® TPU FR BN710996

 Techmer Polymer Modifiers - *Polyurethane*
General Information
General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Additive	<ul style="list-style-type: none"> Flame Retardant
Features	<ul style="list-style-type: none"> Flame Retardant
Appearance	<ul style="list-style-type: none"> Brown
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	psi	ASTM D638
Tensile Strength (Yield)	1500	psi	ASTM D638
Tensile Elongation (Break)	> 150	%	ASTM D638
Flexural Modulus	16000	psi	ASTM D790
Flexural Strength	700	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	4.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.12 in		V-0	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	150	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	345 to 475	°F
Middle Temperature	355 to 385	°F
Front Temperature	365 to 395	°F
Nozzle Temperature	370 to 405	°F
Processing (Melt) Temp	350 to 410	°F
Mold Temperature	50 to 100	°F
Injection Rate		Slow
Back Pressure	0.00 to 50.0	psi
Screw Speed		Slow-Moderate

