

HiFill® TPU STX IM Black

 Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*
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"> Impact Modifier
Features	<ul style="list-style-type: none"> Impact Modified
Appearance	<ul style="list-style-type: none"> Black
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Moisture (266°F)	0.065	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7400	psi	ASTM D638
Tensile Elongation (Break)	81	%	ASTM D638
Flexural Modulus	285000	psi	ASTM D790
Flexural Strength	10000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	12	ft-lb/in	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	220 to 250	°F
Drying Time	2.0 to 6.0	hr
Rear Temperature	455 to 475	°F
Middle Temperature	460 to 480	°F
Front Temperature	460 to 480	°F
Nozzle Temperature	470 to 490	°F
Processing (Melt) Temp	455 to 482	°F
Mold Temperature	110 to 150	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 100	psi
Screw Speed	Moderate	

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