

**HiFill® PBT 0182 B BK**

 Techmer Polymer Modifiers - *Polybutylene Terephthalate*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Metal
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.82		ASTM D792
Melt Mass-Flow Rate (MFR) (266°C/1.2 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.016	in/in	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength (Yield)	7000	psi	ASTM D638
Tensile Strength (Break)	8000	psi	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Tensile Elongation (Break)	16	%	ASTM D638
Flexural Modulus	650000	psi	ASTM D790
Flexural Strength	15900	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125 in)	0.40	ft·lb/in	ASTM D256
<b>Hardness</b>			
Rockwell Hardness (R-Scale)	120		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	157	°F	ASTM D648
CLTE - Flow	5.0E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	460	V/mil	ASTM D149
<b>Flammability</b>			
Flame Rating (0.06 in)	HB		UL 94

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.
