HiFill® PA6 IM 511 HS L

Techmer Polymer Modifiers - *Polyamide 6*

General Information

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Heat Stabilizer	• Impact Modifier	• Lubricant
Features	• Heat Stabilized	• High Impact Resistance	• Lubricated
Uses	• Low Temperature Applications		
Appearance	• Colors Available		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Molding Shrinkage - Flow (0.125 in)	9.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	1.5	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	7500	psi	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	230000	psi	ASTM D790
Flexural Strength	8500	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°F, 0.125 in	No Break		
73°F, 0.125 in	No Break		
Unnotched Izod Impact (0.125 in)	No Break		ASTM D4812
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	70		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	330	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	160	°F	ASTM D648
CLTE - Flow	1.5E-5	in/in/°F	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.0E+13	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	420	V/mil	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	490 to 555	°F
Middle Temperature	490 to 555	°F
Front Temperature	490 to 555	°F
Processing (Melt) Temp	460 to 530	°F
Mold Temperature	150 to 180	°F
Back Pressure	50.0 to 100	psi

Screw Speed	30 to 60 rpm

Notes

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