

HiFill® PP 0114 TC-1

 Techmer Polymer Modifiers - *Polypropylene*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Filler
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.015	in/in	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3600	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	550000	psi	ASTM D790
Flexural Strength	4200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.50	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	210	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	142	°F	ASTM D648
CLTE - Flow	1.9E-5	in/in/°F	ASTM D696
Specific Heat	0.239	Btu/lb/°F	ASTM C351
Thermal Conductivity	6.9	Btu·in/hr/ft ² /°F	ASTM C177
Thermal Diffusivity	0.0200		
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	400	V/mil	ASTM D149

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