

HiFill® PBT 1225 A

Techmer Polymer Modifiers - *Polybutylene Terephthalate*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Appearance	• Colors Available
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.31		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.020	in/in	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8400	psi	ASTM D638
Tensile Strength (Break)	7700	psi	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	350000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	310	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	130	°F	ASTM D648
CLTE - Flow	7.6E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	410	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	HB		UL 94

Notes

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

