

HiFill® PC / PBT IM 5301 UV BK

Techmer Polymer Modifiers - Polycarbonate + PBT

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Impact Modifier • UV Stabilizer
Features	• Impact Modified • UV Resistant
Appearance	• Black
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.17	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7000	psi	ASTM D638
Tensile Elongation (Yield)	50	%	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Flexural Strength	13000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	15	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)	158	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	220	°F	ASTM D648
CLTE - Flow	3.5E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	7.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	600	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

