



Makroblend UT 620 G

Impact modified grades / Glass fiber reinforced

10% glass-reinforced, impact-modified polycarbonate/PET polyester blend

ISO Shortname

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Mold shrinkage, flow/cross to flow		in/in	ASTM D 955	0.001-0.006
Melt flow rate	265 °C; 5 kg	g/(10 min)	ASTM D 1238	11-19
Mechanical properties (23 °C/50 % r.h.)				
Tensile stress at yield		lb/in ²	ASTM D 638	11000
Tensile elongation at yield		%	ASTM D 638	5.0
Tensile elongation at break		%	ASTM D 638	5.0
Tensile stress at break		lb/in ²	ASTM D 638	9000
Izod notched impact strength	73 °F; 0.125 in	ft-lb/in	ASTM D 256	2.6
Izod notched impact strength	-20 °F; 0.125 in	ft-lb/in	ASTM D 256	2
Izod notched impact strength	-40 °F; 0.125 in	ft-lb/in	ASTM D 256	2
Flexural modulus		lb/in ²	ASTM D 790	560000
Flexural stress at 5 % strain		lb/in ²	ASTM D 790	19000
Rockwell hardness		R Scale	ASTM D 785	113
Thermal properties				
Deflection temperature under load, Unannealed	264 psi; 0.250 in	°F	ASTM D 648	237
Deflection temperature under load, Unannealed	66 psi; 0.250 in	°F	ASTM D 648	293
Coefficient of linear thermal expansion, flow/cross-flow		in/in/°F	ASTM D 696	2.6E-05
UL94 Flame Class	Thickness tested: 1.5 mm	Class	UL 94	HB
UL94 Flame Class	Thickness tested: 3.0 mm	Class	UL 94	HB
Relative temperature index, mechanical with impact	Thickness tested: 1.5 mm	°C	UL 746 B	75
Relative temperature index, electrical	Thickness tested: 1.5 mm	°C	UL 746 B	75
Relative temperature index, mechanical without impact	Thickness tested: 1.5 mm	°C	UL 746 B	75
Electrical properties (23 °C/50 % r.h.)				
Dissipation factor, Tinfoil electrodes	1 MHz	-	ASTM D 150	0.008
Volume resistivity, Tinfoil electrodes		Ohm-m	ASTM D 257	1.6 E15
Dielectric strength	Short time under oil at 73 °F	V/mil	ASTM D 149	>700
Dielectric constant, Tinfoil electrodes	1 MHz	-	ASTM D 150	3.2
Other properties (23 °C)				
Water absorption	73 °F; immersion to saturation	%	ASTM D 570	0.24
Water absorption	73 °F; immersion 24 h	%	ASTM D 570	0.10
Specific volume		in ³ /lb	ASTM D 792	21.1
Density		lb/in ³	ASTM D 792	0.047

