

ColorFast® FRPCT8000MR

Americhem - Polycarbonate + PBT

General Information

Product Description

FRPCT8000U is an unreinforced high flow injection molding grade of PC+PBT alloy with improved impact and chemical resistance. It consists of a Brominated FR system with a flame rating of V-0/1.5mm and mold release.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant	• Mold Release	
Features	• Excellent Colorability	• Good Mold Release	
	• Flame Retardant	• Lubricated	
Uses	• Automotive Applications	• Engineering Parts	• Industrial Applications
	• Closures	• Household Goods	• Industrial Parts
	• Consumer Applications	• Housings	• Office Automation Equipment
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.34		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.010 to 0.012	in/in	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	7000	psi	ASTM D638
Tensile Strength ² (Break)	6100	psi	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Tensile Elongation ² (Break)	54	%	ASTM D638
Flexural Modulus ²	415000	psi	ASTM D790
Flexural Strength ²	15000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	14	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	190	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (0.125 in, air)	470	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (0.06 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Shot Size	40 to 60	%
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 510	°F



Nozzle Temperature	470 to 500 °F
Processing (Melt) Temp	470 to 500 °F
Mold Temperature	150 to 190 °F
Back Pressure	50.0 to 100 psi
Screw Speed	50 to 150 rpm
Vent Depth	1.0E-3 to 3.0E-3 in

Notes

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

² 2.0 in/min

³ Submitted to UL for approval.

