

ColorFast® FRPBT210U
Americhem - Polybutylene Terephthalate
General Information
Product Description

V-0 rated, UV resistant, impact modified unfilled PBT

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant • UV Stabilizer		
Features	• Excellent Colorability • Flame Retardant • UV Stabilized		
Uses	• Automotive Applications • Battery Cases • Connectors • Consumer Applications	• Engineering Parts • Household Goods • Housings • Industrial Applications	• Industrial Parts • Outdoor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.34		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.010 to 0.014	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	7000	psi	ASTM D638
Tensile Strength (Break)	6100	psi	ASTM D638
Tensile Elongation ² (Break)	60	%	ASTM D638
Flexural Modulus ²	300000	psi	ASTM D790
Flexural Strength ²	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	7.0	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 (264 psi, Unannealed, 0.250 in)	210	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	12	hr
Suggested Shot Size	40 to 60	%
Rear Temperature	450 to 480	°F
Middle Temperature	460 to 490	°F
Front Temperature	470 to 500	°F
Nozzle Temperature	460 to 490	°F
Processing (Melt) Temp	470 to 500	°F
Mold Temperature	120 to 170	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

