



## ColorFast® FRA202

**PRODUCT DESCRIPTION** General purpose V0/5VA-rated ABS  
**MATERIAL STATUS** Commercial: Active  
**AVAILABILITY** Africa & Middle East, Asia Pacific, Europe, Latin America, North America  
**ADDITIVE** Flame Retardant  
**FEATURES** Flame Retardant, General Purpose  
**USES** General Purpose  
**UL FILE NUMBER** E178307  
**FORMS** Pellets

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 6.0E-3	in/in	ASTM D955
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength <sup>2</sup>			ASTM D638
Yield	6000	psi	
Break	4300	psi	
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	3.0	%	
Break	8.0	%	
Flexural Modulus <sup>2</sup>	330000	psi	ASTM D790
Flexural Strength <sup>2</sup>	8500	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (73°F)	4.0	ft-lb/in	ASTM D256
HARDNESS	NOMINAL VALUE	UNIT	TEST METHOD
Rockwell Hardness (R-Scale)	95		ASTM D785
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 264 psi, Unannealed, 0.250 in	165	°F	ASTM D648
FLAMMABILITY	NOMINAL VALUE	UNIT	TEST METHOD
Flame Rating			UL 94
0.06 in	V-0		
0.10 in	5VA		

Revision Date: 1/24/2019

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<b>INJECTION</b>	<b>NOMINAL VALUE</b>	<b>UNIT</b>
Drying Temperature	160 to 180	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Suggested Shot Size	50 to 70	%
Rear Temperature	340 to 360	°F
Middle Temperature	390 to 410	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	380 to 430	°F
Processing (Melt) Temp	380 to 450	°F
Mold Temperature	160 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm
Vent Depth	1.5E-3 to 2.0E-3	in

**NOTES**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min

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