

ColorFast® PP1-FRV2

Americhem - Polypropylene

General Information

Product Description

PP1-FRV2 is a high melt flow injection molding grade unreinforced polypropylene. It is UL94 V-2 flame rated.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Excellent Colorability	• Flame Retardant	
Uses	• Battery Cases	• Household Goods	• Industrial Applications
	• Closures	• Housings	• Industrial Parts
	• Consumer Applications	• HVAC Applications	
UL File Number	• E178307		
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.932		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18 to 24	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.015 to 0.20	in/in	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	210000	psi	ASTM D638
Tensile Strength ² (Yield)	4000	psi	ASTM D638
Tensile Elongation ² (Break)	90	%	ASTM D638
Flexural Modulus ²	185000	psi	ASTM D790
Flexural Strength ²	5500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.60	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	125	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-2		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°F
Drying Time	2.0 to 4.0	hr
Drying Time, Maximum	6.0	hr
Suggested Shot Size	40 to 60	%
Rear Temperature	360 to 400	°F
Middle Temperature	370 to 410	°F
Front Temperature	380 to 420	°F
Nozzle Temperature	390 to 440	°F
Processing (Melt) Temp	390 to 440	°F
Mold Temperature	50 to 100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

