

ColorFast® PP1-FRV2

Polypropylene Homopolymer

LTL Color Compounders, Inc.

Message:

V-2 rated flame retardant extrusion grade PP

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Homopolymer		
UL File Number	E178307		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.5 to 20	%	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1450	MPa	ASTM D638
Tensile Strength ² (Yield)	27.6	MPa	ASTM D638
Tensile Elongation ³ (Break)	90	%	ASTM D638
Flexural Modulus ⁴	1280	MPa	ASTM D790
Flexural Strength ⁵	37.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	51.7	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	48.9	°C	
Drying Time	2.0 to 4.0	hr	
Drying Time, Maximum	6.0	hr	
Suggested Shot Size	40 to 60	%	
Rear Temperature	182 to 204	°C	
Middle Temperature	188 to 210	°C	
Front Temperature	193 to 216	°C	
Nozzle Temperature	199 to 227	°C	

Processing (Melt) Temp	199 to 227	°C
Mold Temperature	10.0 to 37.8	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm

NOTE		
1.	51 mm/min	
2.	51 mm/min	
3.	51 mm/min	
4.	51 mm/min	
5.	51 mm/min	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

