

ColorFast® FRPE400

Low Density Polyethylene

LTL Color Compounders, Inc.

Message:

extrusion grade, V-2 rated LDPE

General Information			
UL File Number	E178307		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 to 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	89		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	7.58	MPa	
Break	12.4	MPa	
Tensile Elongation ²			ASTM D638
Yield	20	%	
Break	250	%	
Flexural Modulus ³	207	MPa	ASTM D790
Flexural Strength ⁴	7.24	MPa	ASTM D790
Flammability	Nominal Value		Test Method
Flame Rating (1.50 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	177 to 199	°C	
Middle Temperature	182 to 204	°C	
Front Temperature	188 to 210	°C	
Nozzle Temperature	193 to 221	°C	
Processing (Melt) Temp	193 to 221	°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

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