

ColorFast® FRPE400

Americhem - Low Density Polyethylene

General Information

Product Description

extrusion grade, V-2 rated LDPE

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.03		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	1100	psi	ASTM D638
Tensile Strength ² (Break)	1800	psi	ASTM D638
Tensile Elongation ² (Yield)	20	%	ASTM D638
Tensile Elongation ² (Break)	250	%	ASTM D638
Flexural Modulus ²	30000	psi	ASTM D790
Flexural Strength ²	1050	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	89		ASTM D2240
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	350 to 390	°F
Middle Temperature	360 to 400	°F
Front Temperature	370 to 410	°F
Nozzle Temperature	380 to 430	°F
Processing (Melt) Temp	380 to 430	°F
Mold Temperature	50 to 100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

