

# HiFill FR® ABS FR UV BK

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

HiFill FR® ABS FR UV BK is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in North America. Characteristics include:  
Flame Rated  
Flame Retardant  
Good UV Resistance  
UV Stabilized

General Information			
Additive	UV Stabilizer		
Features	Flame Retardant		
	Good UV Resistance		
UL File Number	E157318		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	40.7	MPa	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	71.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	93.9	°C	
1.8 MPa, Unannealed	81.1	°C	
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Additional Information	Nominal Value		
TPCI #	9224121		

Injection	Nominal Value	Unit
Drying Temperature	71.1 to 82.2	°C
Drying Time	2.0 to 16	hr
Rear Temperature	210 to 227	°C
Middle Temperature	216 to 232	°C
Front Temperature	204 to 216	°C
Nozzle Temperature	193 to 216	°C
Processing (Melt) Temp	227 to 254	°C
Mold Temperature	65.6 to 82.2	°C

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#### Recommended distributors for this material

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