

HiFill FR® ABS FR BK

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

HiFill FR® ABS FR 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

General Information			
Features	Flame Retardant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	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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