

ABS-FR

General Information			
General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Flame Retardant		
Features	• Flame Retardant	• Self Extinguishing	
RoHS Compliance	• RoHS Compliant		
UL File Number	• E113219		
Forms	• Pellets		
ASTM & ISO Properties ¹			
Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.0 to 16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (0.125 in)	330000	psi	ASTM D638
Tensile Strength (Yield, 0.125 in)	5900	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	5500	psi	ASTM D638
Tensile Elongation (Yield, 0.125 in)	2.2	%	ASTM D638
Tensile Elongation (Break, 0.125 in)	10	%	ASTM D638
Flexural Modulus (0.125 in)	345000	psi	ASTM D790
Flexural Strength (0.125 in)	9000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	9.0	ft-lb/in²	ISO 179/1eA
Notched Izod Impact (73°F, 0.125 in)	4.0	ft-lb/in	ASTM D256
Notched Izod Impact Strength			ISO 180/1A
-22°F	3.0	ft-lb/in²	
73°F	9.0	ft-lb/in²	
Gardner Impact (0.125 in)	150	in-lb	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, 0.125 in	190	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed, 0.125 in	180	°F	ASTM D648
Vicat Softening Temperature	195	°F	ASTM D1525 ²
RTI Elec			UL 746B
0.06 in	140	°F	
0.12 in	140	°F	
Thermal	Nominal Value	Unit	Test Method
RTI Imp			UL 746B
0.06 in	140	°F	
0.12 in	140	°F	
RTI Str			UL 746B
0.06 in	140	°F	
0.12 in	140	°F	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms-cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in, ALL		V-0	
0.12 in, ALL	•	V-0	
	•	5VA	