

OmniTech™ FRABS

Acrylonitrile Butadiene Styrene

OMNI Plastics, LLC

Message:

Flame Resistant ABS

General Information			
Features	Flame Retardant		
UL File Number	E138590		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	44.8	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	74.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	73.9	°C	ASTM D648
Flammability	Nominal Value	Test Method	
	V-0		
Flame Rating (3.00 mm)	5VA	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	< 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	177 to 204	°C	
Middle Temperature	182 to 216	°C	
Front Temperature	182 to 227	°C	
Nozzle Temperature	193 to 227	°C	
Processing (Melt) Temp	193 to 232	°C	
Mold Temperature	26.7 to 60.0	°C	
Back Pressure	0.345 to 0.689	MPa	

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