

OP - ABS ABS 4-8 SS

Acrylonitrile Butadiene Styrene
Oxford Polymers

Message:
EMI / ESD SHIELDING

General Information			
Filler / Reinforcement	Stainless steel fiber, 8.0% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	51.7	MPa	ASTM D638
Fracture	52.4	MPa	ASTM D638
Flexural Modulus	3520	MPa	ASTM D790
Flexural Strength	91.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (4°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.18mm	107	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	93.3	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.59 mm	HB		UL 94
3.18 mm	HB		UL 94
Additional Information			
Melt Mass- Flow Rate (MFR), ASTM D1238, 230°C/ 3.8kg: 3 to 8 g/10 minSurface Resitivity, ASTM D257: 1E1 to 1E3 ohms			
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	188 - 210	°C	
Middle Temperature	204 - 227	°C	
Front Temperature	216 - 249	°C	

Processing (Melt) Temp	218 - 249	°C
Mold Temperature	48.9 - 82.2	°C

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