

Iuplace™ EHM103R

Mitsubishi Engineering-Plastics Corp - Polyphenylene Ether + PS

General Information			
Product Description			
Electrically Conductive; Carbon black filled			
General			
Additive	• Carbon Black		
Features	• Electrically Conductive		
Uses	• Automotive Applications • Electrical/Electronic Applications • Automotive Electronics • General Purpose		
ASTM & ISO Properties ¹			
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.20 mm	0.85 to 1.1	%	
Flow : 3.20 mm	0.85 to 1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-1/1
Tensile Stress (Break)	62.0	MPa	ISO 527-2/5
Tensile Strain (Break)	8.0	%	ISO 527-2/5
Flexural Modulus ²	2700	MPa	ISO 178
Flexural Stress ²	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	150	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+3	ohms	IEC 60093
Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	100 to 120	°C	
Drying Time - Hot Air Dryer	2.0 to 4.0	hr	
Rear Temperature	290 to 310	°C	
Middle Temperature	310 to 330	°C	
Front Temperature	310 to 330	°C	
Nozzle Temperature	310 to 330	°C	
Mold Temperature	110 to 130	°C	
Injection Pressure	20.0 to 150	MPa	
Injection	Nominal Value	Unit	
Injection Rate	Moderate		
Screw Speed	60 to 150	rpm	

