Mitsubishi Engineering-Plastics Corp.

Iupiace™ 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 • Automotive Electronics	• Electrical/Electronic Applications • 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

Iupiace™ EHM103R

Mitsubishi Engineering-Plastics Corp - Polyphenylene Ether + PS

Injection	Nominal Value	Unit
Injection Rate	Moderate	
Screw Speed	60 to 150	rpm

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 mm/min