

Durabio™ D5380

PC

Mitsubishi Chemical Performance Polymers

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	4	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
Melt flow index, MFI	5	g/10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2300	MPa	ISO 527
Tensile Strength	64	MPa	ISO 527
Strain at break	120	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Flexural strength	94	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	82	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	92	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	73	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	73	E-6/K	ISO 11359-1/-2

Optical properties	Value	Unit	Test Standard
ISO Data			
Luminous transmittance	92	%	ISO 13468-1, -2

Other properties	Value	Unit	Test Standard
Density	1310	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	5 - 7	h	-
Melt temperature	230 - 250	°C	-
Mold temperature	60 - 80	°C	-
Feed temperature	220 - 260	°C	-
Zone 1	220 - 260	°C	-
Nozzle temperature	220 - 260	°C	-
Screw speed	50	rpm	-
Injection pressure	50 - 95	MPa	-
Back pressure	10	MPa	-

Characteristics**Processing**

Other Extrusion

Delivery form

Black

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather, Transparent

Certifications

Contains renewable resources

Applications

Automotive, Electrical and Electronical, Packaging, Sports Equipment

Regional Availability

North America, Europe, Asia Pacific

Features

Light Guiding