

TECHNICAL DATA SHEET

DURACON® M140-44

Polyplastics
POM

Processing

Injection molding

Special Characteristics

Heat stabilized or stable to heat

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	12	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Melt flow index, MFI	14	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Molding shrinkage, parallel	2.2	%	ISO 294-4, 2577
Molding shrinkage, normal	2.3	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	2700	MPa	ISO 527
Tensile strength	62	MPa	ISO 527
Nominal strain at break	33	%	ISO 527
Poisson's ratio	0.35		ISO 527
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength	87	MPa	ISO 178
Charpy notched impact strength, +23°C	5.5	kJ/m ²	ISO 179/1eA
Rockwell hardness	M 80		ISO 2039-2
Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 1.80 MPa	100	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Yellow card available	yes		

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Electrical Properties	Value	Unit	Standard
Volume resistivity	1E12	Ohm*m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2
Electric strength	19	kV/mm	IEC 60243-1
Other Properties	Value	Unit	Standard
Density	1410	kg/m ³	ISO 1183
Processing Recommendation Injection Molding	Value	Unit	Standard
Mold temperature	80	°C	
Zone 1	190	°C	
Injection speed	33	mm/s	

Diagrams

