

TECHNICAL DATA SHEET

DURACON® M450-44

Polyplastics

POM

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	38	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Melt flow index, MFI	45	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Molding shrinkage, parallel	2	%	ISO 294-4, 2577
Molding shrinkage, normal	2	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	2800	MPa	ISO 527
Tensile strength	63	MPa	ISO 527
Nominal strain at break	27	%	ISO 527
Poisson's ratio	0.35		ISO 527
Flexural modulus, 23°C	2550	MPa	ISO 178
Flexural strength	89	MPa	ISO 178
Charpy notched impact strength, +23°C	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		
Electrical Properties	Value	Unit	Standard
Volume resistivity	1E12	Ohm*m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2

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Electrical Properties	Value	Unit	Standard
Electric strength	19	kV/mm	IEC 60243-1

Other Properties	Value	Unit	Standard
Density	1410	kg/m ³	ISO 1183