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Polyplastics DURACON® M90-44

Polyplastics DURACON® M90 - 44 is a medium - viscosity polyoxymethylene copolymer compliant with RoHS and UL standards, renowned for its good balance of mechanical, chemical, and thermal properties,

Physical property	Standard	Value	Unit
Density	ISO 1183	1.41	g/cm³
ShrinkageFlow 60x60x2mm	ISO 294	2	%
Shrinkage xFlow 60x60x2mm	ISO 294	2	%
Water Absorption 23°C 24hr 1.00mm	ISO 62	0.5	%
Melt Index 190°C 2.16kg	ISO 1133	9	g/10min
Melt Index 190°C 2.16kg	ISO 1133	8	cm³/10min
Hardness	**Standard**	**Value**	**Unit**
Rockwell Hardness M(Scale)	ISO 2039	80	
Mechanical behavior	**Standard**	**Value**	**Unit**
Tensile Modulus	ISO 527	2500	MPa
Tensile Strength	ISO 527	59	MPa
Elongation Break	ISO 527	40	%
Flexural Strength	ISO 178	81	MPa
Flexural Modulus	ISO 178	2350	MPa
Charpy Notch Impact 23°C	ISO 179	8	kJ/m²
Friction Coefficient Dynamic VS C- Steel 0.98MPa 0.3m/s thrust	JIS K7218	0.4	
Friction Coefficient Dynamic VS M90-44 0.06MPa 0.15m/s thrust	JIS K7218	0.37	
Specific Wear Rate VS C -Steel 0.3m/s 0.98MPa Material Side thrust	JIS K7218	0.0003	mm³/(N · km)

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Specific Wear Rate VS C -Steel 0.3m/s 0.98MPa Steel Side thrust	JIS K7218	0.00001	mm³/(N · km)

Thermal	Standard	Value	Unit
HDT 1.8MPa	ISO 75	90	°C
CLE Flow 23~55°C	INTERNAL METHOD	0.00012	cm/cm/°C
CLE xFlow 23~55°C	INTERNAL METHOD	0.00012	cm/cm/°C

Electrical properties	Standard	Value	Unit
Volume Resistivity	IEC 60093	1E+14	Ω .cm
Surface Resistivity	IEC 60093	1E+16	Ω
Dielectric Strength 3.0mm	IEC 60243	19	KV/mm

Flammability	Standard	Value	Unit
Flame Rating All Color 0.75mm	UL94	HB	
Flame Rating All Color 1.5mm	UL94	HB	
Flame Rating All Color 3.0mm	UL94	HB	