

Polyplastics DURACON[®] M25S

DURACON[®] POM M25S CF2001 is a copolymer product of polyoxymethylene (POM) manufactured by Polyplastics Co., Ltd.

Physical property	Standard	Value	Unit
Density	ISO 1183	1.41	g/cm ³
Water Absorption 23°C 24hr	ISO 62	0.6	%
Melt Index 190°C 2.16kg	ISO 1133	2.5	g/10min
Melt Index 190°C 2.16kg	ISO 1133	2.2	cm ³ /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 1eA	ISO 179	8	kJ/m ²
Friction Coefficient Dynamic VS C-Steel 0.98MPa 0.3m/s	JIS K7218	0.23	
Friction Coefficient Dynamic VS M90- 44 0.06MPa 0.15m/s	JIS K7218	0.37	
Specific Wear Rate VS C-Steel 0.3m/s 0.98MPa Material Side	JIS K7218	0.0002	mm ³ /(N · km)
Specific Wear Rate VS C-Steel 0.3m/s 0.98MPa Steel Side	JIS K7218	0.00001	mm ³ /(N · km)
Thermal	Standard	Value	Unit
HDT 1.8MPa	ISO 75	90	°C
CLE Flow 23~55°C	INTERNAL METHOD	1.2E-4	cm/cm/°C
CLE xFlow 23~55°C	INTERNAL METHOD	1.2E-4	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	