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Polyplastics DURACON® M270-44

Polyplastics DURACON® M270- 44 is a polyoxymethylene (POM) copolymer renowned for its low viscosity and high flow characteristics.

Physical property	Standard	Value	Unit
Density	ISO 1183	1.41	g/cm³
Shrinkage Flow 60x60x2mm	ISO 294	1.9	%
Shrinkage xFlow 60x60x2mm	ISO 294	1.9	%
Water Absorption 23°C 24hr 1.00mm	ISO 62	0.5	%
Melt Index 190°C 2.16kg	ISO 1133	27	g/10min
Melt Index 190°C 2.16kg	ISO 1133	23	cm³/10min
Hardness	**Standard**	**Value**	**Unit**
Rockwell Hardness M(Scale)	ISO 2039	80	
Mechanical behavior	**Standard**	**Value**	**Unit**
Tensile Modulus	ISO 527	2800	MPa
Tensile Strength	ISO 527	63	MPa
Elongation Break	ISO 527	30	%
Flexural Strength	ISO 178	88	MPa
Flexural Modulus	ISO 178	2500	MPa
Charpy Notch Impact 23°C	ISO 179	5.3	kJ/m²
Friction Coefficient Dynamic VS C- Steel 0.98MPa 0.3m/s thrust	JIS K7218	0.40	
Friction Coefficient Dynamic VS M90- 44 0.06MPa 0.15m/s thrust	JIS K7218	0.37	mm³/(N · km)
Specific Wear Rate VS C-Steel 0.3m/s 0.98MPa Material Side thrust	JIS K7218	0.00003	mm³/(N · km)
Specific Wear Rate VS C-Steel 0.3m/s 0.98MPa Steel Side thrust	JIS K7218	0.0001	mm³/(N · km)