KEPITAL® TE-24S

POM — Korea Engineering Plastics Co. Ltd.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.5**	%	ISO 294-4, 2577
Melt flow index, MFI	**2**	g/10min	ISO 1133

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**38**	MPa	ISO 527-1/-2
Yield strain	**23**	%	ISO 527-1/-2
Nominal strain at break	**-**	%	ISO 527-1/-2
Strain at break	**>50**	%	ISO 527-1/-2
Charpy notched impact strength, +23°C	**28**	kJ/m²	ISO 179/1eA
Flexural modulus, 23°C	**1300**	MPa	ISO 178

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**165**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**61**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**130**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**-**	Ohm*m	IEC 60093
Surface resistivity	**>1E15**	Ohm	IEC 60093

Other properties	Value	Unit	Test Standard
ISO Data			
Humidity absorption	**0.25**	%	Sim. to ISO 62
Density	**1320**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 100**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	≤ **0.1**	%	-
Mold temperature	**60 - 80**	°C	-
Feed temperature	**60 - 80**	°C	-
Zone 1	**170 - 180**	°C	-
Zone 2	**180 - 190**	°C	-
Zone 3	**190 - 200**	°C	-
Nozzle temperature	**180 - 210**	°C	-
Back pressure	**2**	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
North America, Europe, Asia Pacific

Special Characteristics
High impact or impact modified