

Manufacturer: SABIC



SABIC™ POM 90S

PRODUCT DESCRIPTION:

SABIC™ POM 90S is a medium molecular weight grade suitable for Injection molding applications for parts requiring high rigidity and strength for many applications.

CHARACTERISTICS:

SABIC™ POM 90S has the following:

High toughness and strength.

Good chemical resistance to solvent.

High resistance to thermal and oxidative degradation.

Fuel, strong alkalis as well as good hydrolysis resistance.

PHYSICAL PROPERTIES	Unit	Typical Value	Test Method
Density	kg/m ³	1410	ISO 1183
Melt volume rate (MVR)	cm ³ /10min	8	ISO 1133
MVR test temperature	°C	190	ISO 1133
MVR test load	kg	2.16	ISO 1133
Mold shrinkage - parallel	%	2	ISO 294-4
Mold shrinkage - normal	%	1.8	ISO 294-4
Water absorption (23°C-sat)	%	0.65	ISO 62
THERMAL PROPERTIES	Unit	Typical Value	Test Method
Melting temperature (10°C/min)	°C	166	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	°C	104	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	E-4/°C	1.1	ISO 11359-2
MECHANICAL PROPERTIES	Unit	Typical Value	Test Method
Tensile modulus (1mm/min)	MPa	2850	ISO 527-2/1A
Tensile stress at yield (50mm/min)	MPa	64	ISO 527-2/1A
Tensile strain at yield (50mm/min)	%	9	ISO 527-2/1A
Nominal strain at break (50mm/min)	%	30	ISO 527-2/1A
Tensile creep modulus (1h)	MPa	2500	ISO 899-1
Tensile creep modulus (1000h)	MPa	1300	ISO 899-1
Flexural modulus (23°C)	MPa	2700	ISO 178
Charpy impact strength @ 23°C	kJ/m ²	180	ISO 179/1eU
Charpy impact strength @ -30°C	kJ/m ²	160	ISO 179/1eU
Charpy notched impact strength @ 23°C	kJ/m ²	6.5	ISO 179/1eA
Charpy notched impact strength @ -30°C	kJ/m ²	6	ISO 179/1eA
ELECTRICAL PROPERTIES	Unit	Typical Value	Test Method
Relative permittivity - 100 Hz	-	4	IEC 60250
Relative permittivity - 1 MHz	-	4	IEC 60250
Dissipation factor - 100 Hz	E-4	15	IEC 60250
Dissipation factor - 1 MHz	E-4	50	IEC 60250
Volume resistivity	Ohm*m	1E12	IEC 60093
Surface resistivity	Ohm	1E14	IEC 60093
Electric strength	kV/mm	35	IEC 60243-1
Comparative tracking index CTI	-	600	IEC 60112

EGYPTIAN SAUDI COMPANY FOR PLASTIC

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