

SABIC® POM 140S

POLYOXYMETHYLENE

DESCRIPTION

SABIC® POM 140S is an easy flowing grade suitable for injection molding applications for precision molded parts and thinwalled molded parts require high rigidity.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES ⁽¹⁾			
Density	1410	kg/m ³	ISO 1183
Melt volume rate (MVR)	12	cm ³ /10 min	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
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile modulus (1mm/min)	2900	MPa	ISO 527-2 1A
Tensile stress at yield (50mm/min)	65	MPa	ISO 527-2 1A
Tensile strain at yield (50mm/min)	9	%	ISO 527-2 1A
Nominal strain at break (50mm/min)	25	%	ISO 527-2 1A
Tensile creep modulus (1h)	2500	MPa	ISO 899-1
Tensile creep modulus (1000h)	1300	MPa	ISO 899-1
Flexural modulus (23°C)	2800	MPa	ISO 178
Charpy impact strength @ 23°C	150	kJ/m ²	ISO 179/1eU
Charpy impact strength @ -30°C	140	kJ/m ²	ISO 179/1eU
Charpy notched impact strength @ 23°C	6.5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength @ -30°C	6	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES ⁽¹⁾			
Flammability Rating, UL 94			
@ 1.5mm and 3mm thickness	HB	Class	UL Tested
Coeff.of linear therm. expansion (parallel)	1.1	E-4/°C	ISO 11359-2
Melting temperature (10 °C/min)	166	°C	ISO 11357-1/-3
Deflection temperature under load DTUL (@1.8 MPa)	106	°C	ISO 75-1&2

(1) Typical values; not to be construed as specification limits.

CHARACTERISTICS

SABIC® POM 140S has the following:

- Good strength and rigidity.
- Good chemical resistance to solvent.
- High resistance to thermal and oxidative degradation.
- Fuel, strong alkalis as well as good hydrolysis resistance