

Product Texts

SABIC® POM 460S is an extremely easy flowing grade suitable for injection molding applications for very thin-walled precision molded parts with critical flow-path-wall thickness relation; the grade permits processing at reduced temperature, shorter cycle times suitable for many parts.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3000	MPa	ISO 527
Yield stress	65	MPa	ISO 527
Yield strain	7	%	ISO 527
Nominal strain at break	15	%	ISO 527
Flexural modulus, 23°C	2800	MPa	ISO 178
Tensile creep modulus, 1h	2500	MPa	ISO 899-1
Tensile creep modulus, 1000h	1300	MPa	ISO 899-1
Charpy impact strength, +23°C	5	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	5	kJ/m ²	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	106	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	-

Other properties	Value	Unit	Test Standard
Water absorption	0.65	%	Sim. to ISO 62
Density	1410	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding