SABIC® POM 280S

POM — Saudi Basic Industries Corporation (SABIC)

Product Texts

SABIC® POM 280S is a very easy flowing grade for injection molding applications requiring with high rigidity and hardness.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2900**	MPa	ISO 527
Yield stress	**65**	MPa	ISO 527
Yield strain	**7.5**	%	ISO 527
Nominal strain at break	**17**	%	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	**5.5**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**5.5**	kJ/m²	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/m³	ISO 1183

Characteristics

Processing

Injection Molding