

Technical Data

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.

General

Material Status	• Commercial: Active		
Search for UL Yellow Card	• SABIC		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.41 g/cm ³	1.41 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR)	8.0 cm ³ /10min	8.0 cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.8 %	1.8 %	
Flow	2.0 %	2.0 %	
Water Absorption (Saturation, 73°F (23°C))	0.65 %	0.65 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	413000 psi	2850 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	9280 psi	64.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	9.0 %	9.0 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	30 %	30 %	ISO 527-2/1A/50
Tensile Creep Modulus			ISO 899-1
1 hr	363000 psi	2500 MPa	
1000 hr	189000 psi	1300 MPa	
Flexural Modulus (73°F (23°C))	392000 psi	2700 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.9 ft·lb/in ²	6.0 kJ/m ²	
73°F (23°C)	3.1 ft·lb/in ²	6.5 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	76 ft·lb/in ²	160 kJ/m ²	
73°F (23°C)	86 ft·lb/in ²	180 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	219 °F	104 °C	
Melting Temperature ²	331 °F	166 °C	ISO 11357-3
CLTE - Flow	6.1E-5 in/in/°F	1.1E-4 cm/cm/°C	ISO 11359-2
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min

SABIC® POM 90S

Acetal (POM) Copolymer

SABIC

PROSPECTOR®

www.ulprospector.com

Where to Buy

Supplier

SABIC

Web: <http://www.sabic.com/>

Distributor

Guangzhou Hua Xiu Plastics Co. Ltd

Telephone: +86-20-82582555

Web: <http://www.va-so.cn/>

Availability: Asia Pacific

Nexeo Plastics

Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at www.nexeoplastics.com.

Telephone: 833-446-3936

Web: <https://www.nexeoplastics.com/>

Availability: North America

