

SABIC® POM 90S

Acetal (POM) Copolymer

SABIC

PROSPECTOR®

www.ulprospector.com

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 • Europe • North America
• Asia Pacific • Latin America

Physical	Nominal Value Unit	Test Method
Density	1.41 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR)	8.0 cm ³ /10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	1.8 %	
Flow	2.0 %	
Water Absorption (Saturation, 23°C)	0.65 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2850 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	64.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	9.0 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	30 %	ISO 527-2/1A/50
Tensile Creep Modulus		ISO 899-1
1 hr	2500 MPa	
1000 hr	1300 MPa	
Flexural Modulus (23°C)	2700 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	6.0 kJ/m ²	
23°C	6.5 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	160 kJ/m ²	
23°C	180 kJ/m ²	
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	104 °C	
Melting Temperature ²	166 °C	ISO 11357-3
CLTE - Flow	1.1E-4 cm/cm/°C	ISO 11359-2
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.5 mm	HB	
3.0 mm	HB	

Notes

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

² 10°C/min



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Where to Buy

Supplier

SABIC

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

Distributor

3Polymer (Guangzhou) Chemical Technology Co., Ltd.

Telephone: +86-20-3466-7988

Web: <http://3polymer.com>

Availability: China

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

