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SABIC® POM 90S

POLYOXYMETHYLENE

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.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES (1)			
Density	1410	kg/m³	ISO 1183
Melt volume rate (MVR)	8	cm³/10 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)	2850	MPa	ISO 527-2 1A
Tensile stress at yield (50mm/min)	64	MPa	ISO 527-2 1A
Tensile strain at yield (50mm/min)	9	%	ISO 527-2 1A
Nominal strain at break (50mm/min)	30	%	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)	2700	MPa	ISO 178
Charpy impact strength @ 23°C	180	kJ/m²	ISO 179/1eU
Charpy impact strength @ -30°C	160	kJ/m²	ISO 179/1eU
Charpy notched impact strength @ 23°C	6.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength @ -30°C	6	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES (1)			
Flammability Rating, UL 94			
@ 1.5mm and 3mm thickness	НВ	Class	UL Tested
Melting temperature (10 °C/min)	166	°C	ISO 11357-1/-3
Deflection temperature under load DTUL (@1.8 MPa)	104	°C	ISO 75-1&2
Coeff.of linear therm. expansion (parallel)	1.1	E-4/°C	ISO 11359-2

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

CHARACTERISTICS

SABIC® POM 90S has the following:

- High toughness and strength.
- High resistance to thermal and oxidative degradation.
- Fuel, strong alkalis and good hydrolysis resistances.