

SABIC® POM 30RE

POLYOXYMETHYLENE

DESCRIPTION

SABIC® POM 30RE is a special grade for Rods and Extrusion sheet applications free of center porosity in large diameter and thickness.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES ⁽¹⁾			
Density	1410	kg/m ³	ISO 1183
Melt volume rate (MVR)	2.5	cm ³ /10 min	ISO 1133
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile modulus (1mm/min)	2400	MPa	ISO 527-2 1A
Tensile stress at yield (50mm/min)	61	MPa	ISO 527-2 1A
Tensile strain at yield (50mm/min)	11	%	ISO 527-2 1A
Flexural modulus (23°C)	2500	MPa	ISO 178
Charpy notched impact strength @ 23°C	8.5	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES ⁽¹⁾			
Flammability Rating, UL 94			
@ 1.5mm and 3mm thickness	HB	Class	UL Tested
Melting temperature (10 °C/min)	163	°C	ISO 11357-1/-3
Deflection temperature under load DTUL (@1.8 MPa)	91	°C	ISO 75-1&2

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

CHARACTERISTICS

SABIC® POM 30RE has the following:

- High Strength and impact toughness.
- Good inherent lubricity and low wear.
- Good chemical resistance.

PROCESSING CONDITIONS

Drying normally it's not required, however it may be necessary to prevent splay and odor problem.

Drying time : 3 h.

Drying temperature : 80 – 100 °C

Profile Extrusion

Standard extruders with grooved feed zone and short compression screws (min. 25D) are recommended

Melt Temperature : 180 – 190 °C