

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

Revision 20220721

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

STORAGE AND HANDLING

Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Open containers only in well-ventilated area. Store in a dry and cool area. Keep away from heat sources and sources of ignition. Keep away from direct sunlight. Residual monomer vapors can accumulate in the head space of closed containers.

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