

PO COMPOUND SABIC® P1600A

DESCRIPTION

PO COMPOUND SABIC® P1600A shows superior abrasion resistance, excellent chemical and corrosion resistance, easy processing ability, and good compatibility with HDPE pipes. Typical customer applications are mining and dredging application, a section of piping for use in transporting abrasive slurries requires pipeline with improved abrasion resistance.

TYPICAL PROPERTY VALUES

Revision 20251104

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 190°C & 2.16 kg load	0.43	g/10 min	ISO 1133
@ 190°C & 10 kg load	4.1	g/10 min	ISO 1133
@ 190°C & 21.6 kg load	28.3	g/10 min	ISO 1133
Density			
@23°C ⁽¹⁾	892	kg/m ³	ISO 1183
MECHANICAL PROPERTIES ^{(1) (2)}			
Tensile modulus ^{(3) (4)}	57	MPa	ISO 527
Tensile Elongation @ Break ^{(3) (4)}	>1000	%	ISO 527
Charpy Notched Impact Strength @ 23°C	28	kJ/m ²	ISO 179
Hardness, Shore A ^{(1) (2)}	91	-	ISO 868
Slurry Abrasion Weight Loss	0.5	Wt. %	ISO 15527
ESCR (10% Igepal CO-630), F50	>1000	h	ASTM D1693B
THERMAL PROPERTIES			
Vicat Softening Point @ 10N (VST/A) ^{(1) (2)}	53	°C	ISO 306
OIT (200°C)	>30	Minutes	ISO 11357

(1) Compression moulding of test specimen according to ISO 1872-2

(2) Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours

(3) Speed of testing: 50 mm/min

(4) Test specimen according to ISO 527-2 type 1BA, thickness 2 mm

PROCESSING CONDITIONS

Typical processing conditions for P1600A: Melt Temperature: 190-210°C

FOOD REGULATION

Please contact the local Sales / Technical representative for details.

STORAGE AND HANDLING

Material / compound should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance. It is advisable to process the material resin within 6 months after delivery.



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