ABPLASTECH

2357, Modern Industrial Estate, Part-B, Bahadurgarh, Jhajjar,
Haryana 124507, India
+91 94160 55854 · pawar@abplastech.co.in ·
abplastech.co.in

Labyrinth seal sets for conveyor idler rollers



Moulded polyamide seal sets for conveyor belt idler rollers. Four-piece sets for bearings 6204, 6205, 6206 and 6305, in PA6 and PA66. In continuous production since 2013.

20–30 mm
Spindle bore

47–62 mm
Outside diameter

14–17 mm
Width

Sizes

Set	Bearing	Bore	OD	Width	Typical duty
204	6204	20 mm	47 mm	14 mm	Return rollers, light-duty idlers
205	6205	25 mm	52 mm	15 mm	General material handling
206	6206	30 mm	62 mm	16 mm	Medium to heavy duty
305	6305	25 mm	62 mm	17 mm	Heavy duty, long-centre conveyors, mining and bulk handling

Roller shell diameter and spindle size vary between manufacturers. Send a roller drawing or a sample end assembly with your enquiry and we will confirm the correct set.

Material grades: PA6 and PA66

Grade	Properties	Specify for
PA6	High impact strength, good toughness, excellent wear resistance	General material handling, standard ambient duty, impact and stone-strike positions
PA66	Higher stiffness, higher heat-deflection temperature, better dimensional stability	Hot conveyed material, higher roller speeds, heavy abrasive duty, sustained high ambient temperature

Where the application is uncertain, PA6 is the safe default. PA66 is chosen when temperature or long-term dimensional stability governs.

Seal set components

Order	Component	Function
1	Rain cap	Outermost closure. Sheds water and falling material before either reaches the labyrinth. Takes the direct strike from lump and stone.
—	Metal cap	Metal retaining cap. Not part of the seal set — shown only to place the plastic components correctly.
2	Fix seal	Stationary on the spindle. Forms the outer half of the labyrinth.
3	Rotary seal	Rotates with the shell. Forms the inner half of the labyrinth, and flings incoming particles outward.
—	Bearing	Not supplied by us. 6204, 6205, 6206 or 6305 to suit.

4	Back seal	Innermost. Provides the seating face that sets the bearing squarely in the shell, and closes the inboard side against grease loss.

A set is four moulded pieces: rain cap, fix seal, rotary seal and back seal. The metal cap and the bearing are not included.

Request a quote: +91 94160 55854 (call and WhatsApp) · pawar@abplastech.co.in

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Illustrations are CAD renderings; accessories and fittings shown are illustrative and may not be standard equipment. Specification varies by model and duty and is confirmed only in our written offer. Performance figures are stated with the conditions they were measured at; results depend on your material, its moisture and bulk density, and the installation. Machines must be installed, operated and maintained as described in the manual supplied — guards and interlocks must not be removed or defeated.
Datasheet prepared from the machine page at abplastech.co.in/labyrinth-seals/. Specification is confirmed only in our written offer.