



Insights on

RUBBER PRODUCTS FOR PIPE INDUSTRY

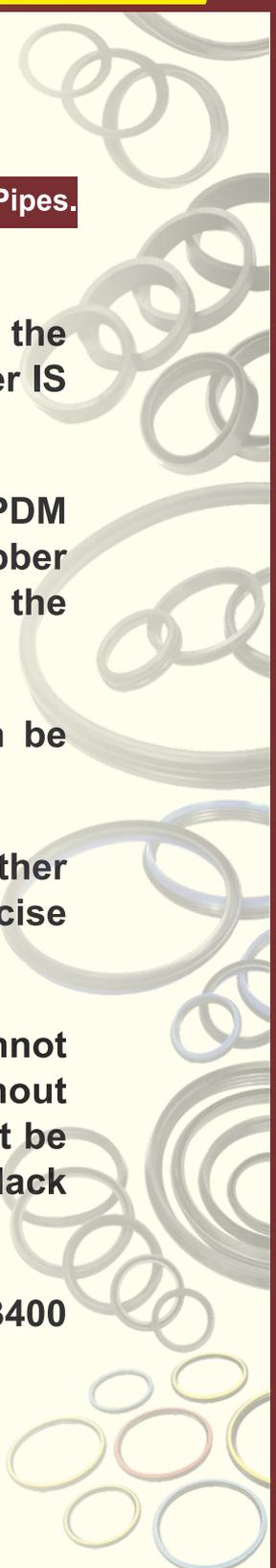
An informative monthly Newsletter

November - 2018



Knowledge
center

Importance of Ash Content in EPDM Rings which are used in UPVC Pipes.

- Ash Content plays a vital role in order to achieve the physical properties of EPDM Rubber Rings as per IS 5382.
 - Low ash content signifies higher grade and better quality EPDM Rings, whereas High ash content signifies use of low grade rubber and low quality reinforcing fillers being used in manufacturing the EPDM Rings.
 - All the specified physical properties in IS 5382 standard can be achieved only if the ash content of EPDM Rubber is below 8%.
 - Frequently the filler content of a material needs to be measured either for quality control purposes or as part of a troubleshooting exercise where verification of a specification for filler content is needed.
 - The Ash content test will identify the total filler content. It cannot identify individual percentages in multi-filled materials without additional test procedures being performed. An ash test cannot be used to determine the percent carbon fiber or percent carbon black since carbon burns off during the Ash test.
 - The standard test method to determine Ash Content is as per IS 3400 Part22 or ASTM-D4574.
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How can we easily calculate percentage of Ash Content in Rubber Products?

1. Connect the power supply to muffle furnace.
2. By pressing the start button provided on Digital Temperature controller and simultaneously moving the screws on the right marked .Set clockwise to increase and anticlockwise to decrease. Set the required temperature.
3. Let the temperature rise to set temperature and stabilize for few minutes.
4. Heat the crucible at specific temperature say 150⁰ C to remove moisture for 20-25 minutes.
5. Place Crucible in Desiccator and let it cool for 30 minutes.
6. Weigh the empty crucible on weighing balance and take weight of your test sample.
7. Place the crucible along with the sample in muffle furnace. Set the temperature of 600⁰C in muffle as per your sample specifications for a 2-3 hours .Thereafter leave the crucible to cool down in Desiccator for 30 minutes. Reweigh the crucible with ash on weighing balance to take the weight .
8. Now Calculate Percentage of Ash Content by using below formulae.

Weight of the Ash = Weight of crucible with Ash - Weight of empty crucible

$$\text{Percentage of Ash Content} = \frac{\text{Weight of the Ash}}{\text{Weight of the Rubber Sample}} \times 100$$

Diagram of Accurate Determination of Ash content in Rubber Products





Rubber Lip Seals for Pipe joints as per BS EN 681:2002.

- Introducing our new product Rubber Lip seals for Pipe joints which are specially designed for water and drainage applications .
- These Lip seals are designed as per BS EN 681:2002.
- These EPDM Rings have physical properties to satisfy the requirements of pipes which are used in
 - 1) Cold Potable Water Supply (up to 50° C)
 - 2) Drainage, Sewerage and Rainwater Systems (continuous flow up to 45° C and intermittent flow up to 95° C).
- These Rings are available in the size of 82mm, 110mm,160mm, 200mm, 250mm to 315mm



For our comprehensive catalog on our Rubber & TPE products for the Pipe Industry.
Click on following link:- www.ashutoshrubber.com/catalog

-----: A Publication by :-----

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Disclaimer: All the contents of this newsletter are only for general information related to Rubber & TPE Products. Take experts advice before selecting the product and applications.