

AKSAD GROUP PETROCHEM

7000F (FILM GRADE)

PRODUCT DESCRIPTION

000 F is a high density polyethylene resin ;a product of bi-modal process from Mitsui Chemicals, Inc. of Japan

TYPICAL APPLICATION

Recommend film thickness at 10-25 micron

Shopping bag and T-shirt bag

High tensile strength with good dart impact strength

Garbage bag

Low gel content

Liner bag

Good moisture barrier

Enhanced ultra thin film

Food contact applicable

High stiffness

Wide service Temperature range, UV resistance

| Properties | Value | Unit | Method |
|----------------------------|----------------------|--------------------|---------------------------------------|
| Melt Flow Rate | 0.04 | g/10 min | ASTM D 1238 @ 190 o C, 2.16 kg |
| Density | 0.954 | g/cm ³ | ASTM D 1505 |
| Melting Point | 131 | C° | ASTM D 2117 |
| Vicat Softening Point | 124 | C° | ASTM D 1525 |
| Brittleness Temperature | < -60 | C° | ASTM D 746 |
| ESCR | > 1000 | hrs, F50 | ASTM D 1693 @ 50 o C |
| Tensile Strength@ Yield | MD: -*, TD: 250* | kg/cm ² | ASTM D 638 @ crosshead speed 50mm/min |
| Tensile Modulus, 2% Secant | MD: 620*, TD: 310* | kg/cm ² | ASTM D 638 @ crosshead speed 50mm/min |
| Elongation@Break | MD: 8200*, TD: 8000* | kg/cm ² | ASTM D 638 @ crosshead speed 50mm/min |
| Elmendorf Tear Strength | MD : 240*, TD : 450* | % | ASTM D 638 @ crosshead speed 50mm/min |
| Elmendorf Tear Strength | MD : 3*, TD : 80* | g | ASTM D 1922 |
| Dart Impact Strength | 139* | g | ASTM D 1709 |

(*) Properties obtained from film produced on a pilot line , 12 micron, BUR 5:1, MD = Machine Direction, TD = Transverse

Direction Note : Conversion factor for changing unit from kg/cm² to MPa is divided by 10.2

PROCESSING TECHNIQUES

The actual extrusion condition depends on type of using machine, size and film thickness of product required. diameter. Generally, melt temperature should be 190-210 oC with BUR = 3-5 times and frost line height (FLH) = 8-10 times of die diameter.

Product Technical Assistance

Commercial Manager cell phone: +98- 912 127 45 75

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For technical assistance or further information on this product contact MHPC technical team at the address or telephone number as specified below.

PRODUCT AVAILABLE FORM AND PACKAGING

Pellet

25 kg loose bag

Big bag with specified weight

STORAGE

Product(s) should be stored in dry and dust free location at temperature below 50o C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination

The storage area should be stable and not be slopped.

SAFETY

The product is not classified as a hazardous material.

Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products;

RECYCLING

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling

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RELATED DOCUMENTS

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

Material Safety Data Sheet

Statement on compliance to food contact regulations

DISCLAIMER

The product can be used only for the application as specified hereabove.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information

We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our product.

No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials

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