



# DUREFLEX® U04

## *Aromatic Polyester Polyurethane Film*

### Product Information

Dureflex® U04 is a polyester-based thermoplastic polyurethane film exhibiting high crystallinity which facilitates bonding to substrates with water-based adhesives much more readily than conventional thermoplastic films. Dureflex® U04 has no internal lubrication that can interfere with proper wetting of the film surface to develop a strong adhesive bond. It is manufactured using co-extrusion blown film process technology on a polyethylene carrier film. As with any product, use of Dureflex® U04 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

### Typical Physical Properties\*

	ASTM Test Method	Value
Specific Gravity	D-792	1.19
Durometer (Shore A)	D-2240	87
Ultimate Tensile Strength	D-882	8500 psi
Ultimate Elongation	D-882	625%
100% Modulus (MD/CD Ave.)	D-882	1100 psi
300% Modulus (MD/CD Ave.)	D-882	2400 psi
Tear Resistance (MD/CD Ave.)	D-1004	550 pli
Min Softening Point (TMA onset)	E2347-04	174°C / 346°F
Max Softening Point (TMA endpoint)	E2347-04	217°C / 423°F
Approx. Yield (sq. ft./lb. @1 mil)		162

### Advantages

What makes Dureflex® brand thermoplastic elastomer film grades attractive:\*

- functional flame retardance
- high moisture vapor transmission rates
- rubber-like elasticity
- functional static dissipation
- exceptional structural memory
- good gas / vapor barrier properties
- wide ranging surface textures / slip features
- matched customer colors
- full range of opacity

### Secondary Processing Options:

- foam-in-place
- heat sealing
- laminating
- match mold forming
- pressure forming
- RF welding / sealing
- solvent welding
- thermoforming
- ultrasonic welding
- vacuum forming

\*Refers generally to Dureflex® brand films and not solely to the product described on this data sheet.

\* These items are provided as general information only. They are approximate values and are not part of the product specifications.

## Custom Manufacturing Capabilities<sup>2</sup>

Range of Capabilities	
Width Available	12- 66 in. <sup>2</sup>
Gauge Available	0.7 - 4 mils
Surface Texturing Available	No
Interleaf Available	PE Carrier Film
Clean Room Production	No
Core Size available	3 in & 6 in

<sup>2</sup> Restriction may apply to certain film grades.

## Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Dureflex<sup>®</sup> U04. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. For further information contact your Bayer MaterialScience representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

Note: The information contained in this bulletin is current as of June 2010, please contact Bayer MaterialScience to determine whether this publication has been revised.

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