



## Adflex C 200 F

### Advanced Polyolefin

#### Product Description

Adflex C 200 F is developed for the central layer of tough, transparent co-extruded cast-film structures. It combines transparency with high softness, a very high toughness even at low temperatures and an excellent compatibility with other polyolefins. It does not contain any slip nor anti-blocking agents. Typical applications of the Adflex C 200 F are co-extruded cast-film for food packaging, hygiene applications, surface protection where the outside layer can be any polyolefin homo or copolymer.

For regulatory information please refer to Adflex C 200 F Product Stewardship Bulletin (PSB).

#### Product Characteristics

|                                      |                                                                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Status</b>                        | Commercial: Active                                                                                                             |
| <b>Test Method used</b>              | ISO                                                                                                                            |
| <b>Availability</b>                  | Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America                                                          |
| <b>Processing Methods</b>            | Cast Film, Extrusion Coating, Extrusion Thermoforming                                                                          |
| <b>Features</b>                      | High Clarity, Soft, Good Toughness, Low Temperature Toughness                                                                  |
| <b>Typical Customer Applications</b> | Bags & Pouches, Barrier Film, Breathable Film, Film Wrap, Food Packaging Film, Lamination Film, Peelable Film, Stationery Film |

| Typical Properties                                  | Method        | Value    | Unit              |
|-----------------------------------------------------|---------------|----------|-------------------|
| <b>Physical</b>                                     |               |          |                   |
| Density (Method A)                                  | ISO 1183      | 0.89     | g/cm <sup>3</sup> |
| Melt flow rate (MFR) (230°C/2.16Kg)                 | ISO 1133      | 6        | g/10 min          |
| <b>Mechanical</b>                                   |               |          |                   |
| Tensile Stress at Yield                             | ISO 527-1, -2 | 8        | MPa               |
| Tensile Strain at Break                             | ISO 527-1, -2 | 500      | %                 |
| Flexural modulus                                    | ISO 178       | 220      | MPa               |
| <b>Impact</b>                                       |               |          |                   |
| Notched izod impact strength                        | ISO 180       |          |                   |
| (- 20 °C, Type 1, Notch A)                          |               | 65       | kJ/m <sup>2</sup> |
| (23 °C, Type 1, Notch A)                            |               | No break |                   |
| <b>Hardness</b>                                     |               |          |                   |
| Shore hardness (Shore D)                            | ISO 868       | 41       |                   |
| <b>Thermal</b>                                      |               |          |                   |
| Heat deflection temperature B (0.45 MPa) Unannealed | ISO 75B-1, -2 | 50       | °C                |
| Vicat softening temperature (A50 (50°C/h 10N))      | ISO 306       | 89       | °C                |
| <b>Optical</b>                                      |               |          |                   |
| Haze (50 µm)                                        | ASTM D 1003   | 8        | %                 |
| Gloss (45°, 50 µm)                                  | ASTM D 2457   | 47       |                   |

#### Additional Properties

Film properties obtained on cast film produced with laboratory line under internal standard conditions.

Tensile Young modulus, MD/TD, ISO 527-3, 25 mm/min, 50 µm: 125/110 MPa  
Stress at Yield, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 8/8 MPa  
Elongation at Yield, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 26/23 %  
Stress at Break, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 30/24 MPa  
Elongation at Break, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 990/890 %

#### Notes

Typical properties; not to be construed as specifications.