

Technical data sheet

Product name:

Bio-Flex[®] F 1110

Date of issue: 23.02.2010

(prev. Bio-Flex[®] 221 F)

Version: 1.0

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1. Designation of product, preparation and manufacturer

| | |
|---------------------|---|
| 1.1 Trade name: | Bio-Flex [®] F 1110 (prev. Bio-Flex [®] 221 F) |
| 1.2 Use of product: | Biodegradable compound for film extrusion |
| 1.3 Manufacturer: | FKuR Kunststoff GmbH Siemensring 79 D - 47 877 Willich Phone: + 49 (0) 2154 / 92 51-0 Fax: + 49 (0) 2154 / 92 51-51 Mail: info@fkur.com Web: www.fkur.com |

2. Mechanical properties

| | | | |
|--------------------------------------|----------|----------------------|----------------|
| Tensile modulus of elasticity | 230 | [MPa] | ISO 527 |
| Tensile strength | 16 | [MPa] | ISO 527 |
| Tensile strain at tensile strength | > 300 | [%] | ISO 527 |
| Tensile stress at break | no break | [MPa] | ISO 527 |
| Tensile strain at break | no break | [%] | ISO 527 |
| Flexural modulus | 215 | [MPa] | ISO 178 |
| Flexural strain at break | no break | [%] | ISO 178 |
| Flexural stress at 3.5 % strain | 6 | [MPa] | ISO 178 |
| Notched impact strength (Charpy), RT | no break | [kJ/m ²] | ISO 179-1/1 eA |
| Impact strength (Charpy), RT | no break | [kJ/m ²] | ISO 179-1/1 eU |
| Density | 1.28 | [g/cm ³] | ISO 1183 |
| Bulk density | 760 | [kg/m ³] | ISO 60 |

3. Thermal properties

| | | | |
|-----------------------------------|-----------|---------------------------|------------|
| Melt temperature | > 155 | [°C] | ISO 3146-C |
| Vicat A softening temperature | 68 | [°C] | ISO 306 |
| Heat distortion temperature HDT B | n/a | [°C] | ISO 75 |
| Melt volume rate (190 °C/2.16 kg) | 1.5 - 3.5 | [cm ³ /10 min] | ISO 1133 |
| Melt flow rate (190 °C/2.16 kg) | 2 - 4 | [g/10 min] | ISO 1133 |

4. Legal notice

The values listed have been established on standardized test specimens at standard temperature and humidity conditions. The figures should be regarded as guide values only. Under certain conditions the properties can be influenced to a significant extent by the processing conditions.

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