

CAPROWAX P™ 6006-00-000

Pellets

Applications: Monofilaments, vacuum forming, blow moulding, foils, hot melt, composites

Customer information:

Fon: +49 7625 91 84 58

info@polyfea2.de

www.caprowax-p.eu

Testmaterial for

customer projects

Product information

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Albrecht Dinkelaker

Polymer- and product development

Blumenweg 2

D 79669 Zell im Wiesental

Physical Properties

| | | |
|------------------------|----------------------|-----------------|
| Physical form | | Pellets |
| Density at 23 °C | g/cc | 1,05-1,15 |
| MVI at 90°C/2,16 kg | DIN 53375 cc/10 min. | 2,5-6,0 *) |
| Softening temp. DIN EN | ISO 11358 °C (°F) | 57-63 (135-145) |
| Residual humidity | 70°C/2h % | <0,2 |
| Vicat VST A/50 | ISO 306 °C (°F) | 56 (133) |
| Shore-Hardness D | ISO 868 | 54 |

*) Based on the biological sources of waxes different values of viscosity could be occur

Tensile strength and elongation are dependent of temperature and stretching conditions

Measurements make only sense with comparable process conditions and thickness of moulded or stretched articles

Description

CAPROWAX P™ 6006-00-000 is a translucent/opaque blend based on aliphatic polyester and modified vegetable oils with pronounced behaviour of cristallisation, stretchability Bioplastic comply the specifications of DIN EN 13432

Advantages of basic blend

*) calculated

No food or feeding stuff

No content of starch

or PLA, GM-free

Ecofriendly

Ø 83,7%* of organic carbon from biobased resources

Total amount of organic carbon: Ø 71,4%*

Compostable according to DIN EN 13432, up to 500 µm,

Test certificate No. P31/029-05, Bauhaus-Universität Weimar

Stable in use, tearproof/cold-flexibel after stretching

Without content of aromatic or nitrogenous substances

Applications

Monofilaments/Textile systems as stretched products

Vacuum forming, blow moulding, hotmelt, composites

Extrusion overall

Optional drying at 48°C/12h

Feed section

RT or 50-60°C (122-140°F)

Plasticising

at 120-90°C (248-194°F)

Monofilaments

Drying commended

at 48-50°C/12h(118-122°F)

Spinneret

at 100-110°C (212-230°F)

String generation in water quench or cold-air-duct,

stretching in hot-air-duct at 65-80°C (149-176°F)

Favoured range of stretching: 1:5 to 1:8

Plastic film

Slot die

at 90-100°C (194-212°F)

Polishing roll water cooled at 10-25°C (50-77°F)

Vacuum forming

Thermoforming of film

at 75-85°C (167-185°F)

Blow moulding

Parison die

at 65-80°C (149-176°F)

Mould

at 10-25°C (50-77°F)

Hotmelt adhesive

Apply melt at 90-100°C, compress/calendering, cool down

Drying on demand

48-50°C/12h (118-122°F)

Storage/Instruction

Avoid heat/moisture, storage in original containers only

Do not heat melt above 90°C (194°F) over long time

CAPROWAX P™ compostable of course