

PX 280

(Matrix PU 280)

Applications

PX 280 is ideal for prototype parts and mockups requiring mechanical properties close to thermoplastics, like filled polypropylene or filled ABS. It can be used for parts in contact with aqueous, acid and greasy foods (such as fish and meat). Not homologated for liquid contact.

Properties

- ▶ Compliance with directive 2002/72/CE
- ▶ Compliance with directive 2007/19/CD regarding food contact
- ▶ Compliance with FDA 21 CFR 177.2600 regulation for repeated use
- ▶ Good thermal resistance
- ▶ Good impact and flexural resistance

| PHYSICAL PROPERTIES | | | |
|-----------------------------------|-------------------|-------------------|-----------|
| Composition | ISOCYANATE | POLYOL | MIXED |
| Colour | Amber | White | Off white |
| MECHANICAL PROPERTIES AT 23°C | | | |
| Flexural modulus of elasticity | ISO 178 : 2001 | MPa | 2.800 |
| Flexural strength | ISO 178 : 2001 | MPa | 117 |
| Tensile strength | ISO 527-2 : 1993 | MPa | 75 |
| Elongation at break in tension | ISO 527-2 : 1993 | % | 5 |
| Charpy impact strength | ISO 179/1D : 1994 | kJ/m ² | 25 |
| Hardness | ISO 868 : 2003 | Shore D1 | 85 |
| THERMAL AND SPECIFIC PROPERTIES | | | |
| Glass transition temperature (Tg) | ISO 11359 : 2002 | °C | 80 |
| Maximal casting thickness | - | mm | 10 |