

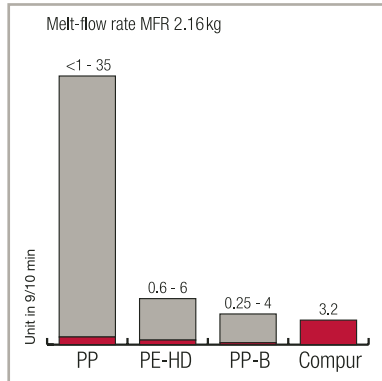


**Compur**

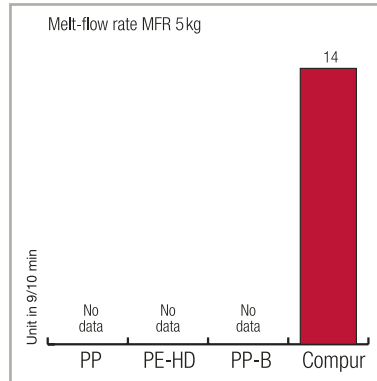
**Polyolefin blend  
for filigree  
injection-moulded parts**

## In comparison

### Rheological properties

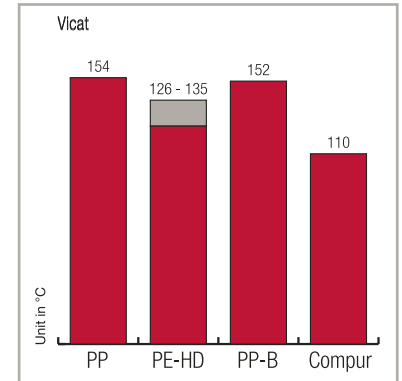


Test conditions: 230°C / 2.16kg  
Standards: DIN ISO 1133



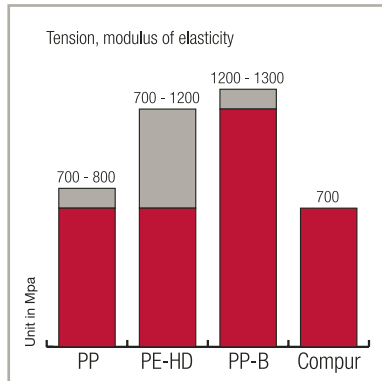
Test conditions: 230°C / 5kg  
Standards: DIN ISO 1133

### Thermal properties

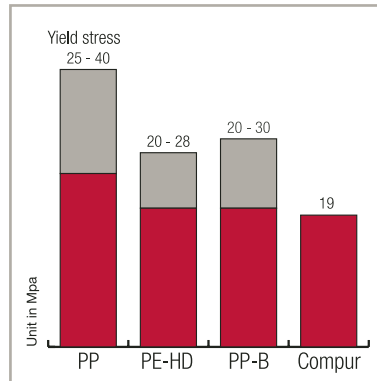


Test conditions: 120° 1k/h, 50N  
Standards: ISO 306

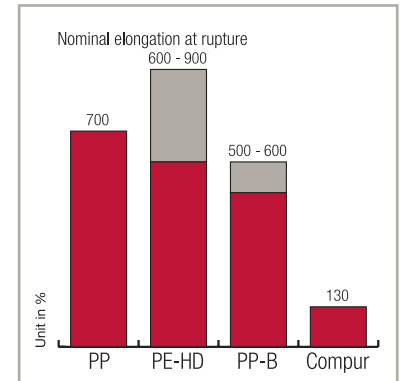
### Mechanical properties



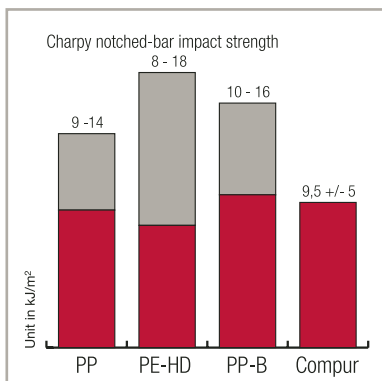
Test conditions: 23°C / 1mm/min  
Standards: ISO 527-2



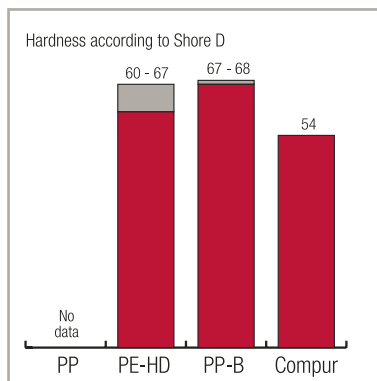
Test conditions: 23°C / 1mm/min  
Standards: ISO 527-2



Test conditions: 23°C / 1mm/min  
Standards: ISO 527-2

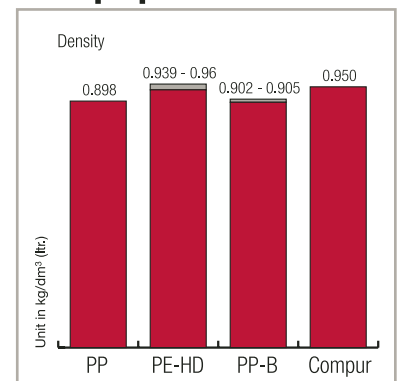


Test conditions: 23°C / 1mm/min  
Standards: ISO 527-2



Standards: DIN 53505

### Other properties



Test conditions: 120° 1k/h, 50N  
Standards: ISO 306

## Properties

Compur is an easy flowing polyolefin blend of polypropylene and polyethylenes which is characterised by a balanced ratio of strength and impact resistance as well as by good working properties particularly in injection moulding. The mechanical properties of Compur are between PE HD and PP. As a result of the synergy of the two components and the overlapping of their temperature ranges in use a widened range of applications is obtained. Compur possesses a medium-grey self-colour and a high gloss. It can be injection-moulded to make filigree moulded parts, free of distortion, without any problems.

### Recommended processing parameters:

Injection moulding at 190 °C - 230 °C, temperature-stable up to 280 °C

Properties	Test conditions	Standard	Unit	Values
<b>Rheological properties</b>				
Melt-flow rate MFR	230°/2.16kg	DIN ISO 1133	g/10min	3.2
Melt-flow rate MFR	230°/5kg	DIN ISO 1133	g/10min	14
<b>Mechanical properties</b>				
Tension, modulus of elasticity	20°C/ 1 mm/min	ISO 527-2	Mpa	700
Yield stress	20°C/1 mm/min	ISO 527-2	Mpa	19
Nominal elongation at rupture	20°C/1 mm/min	ISO 527-2	%	130
Charpy notched-bar impact strength	20°C/1 mm/min	ISO 527-2	kJ/ m <sup>2</sup>	9.5 +/- 5
Hardness according to Shore D	DIN 53505			54
<b>Thermal properties</b>				
Vicat	120° k/ h, 50N	ISO 306	°C	110
Softening point				
<b>Other properties</b>				
Density	20°C	ISO 1183	kg/dm <sup>3</sup> (ltr.)	0.95
Bulk density	20°C		kg/dm <sup>3</sup> (ltr.)	0.6-0.7

# Processing recommendation

## General

Compur is a polyolefin blend which is used in extrusion as well as in injection moulding. The properties are a balance between PP and PE. Classic negative properties of PP such as brittleness at lower temperatures have been markedly reduced. Outstanding characteristics of PE, the elasticity when repeatedly stressed, are significant characteristics of this material.

## Injection moulding

Suitable for thick and thin-walled injection-moulded parts with glossy surfaces.

**Processing:** - processing at 190°C - 230°C  
- temperature-stable up to 280°C

## Extrusion

Suitable for thick and thin-walled extruded parts with glossy surfaces.

**Processing:** - processing at 190°C - 230°C  
- temperature-stable up to 280°C

Exceptions from this are applications which undergo a welding process during use or assembly. Reworking can be carried out without problems by means of punching, sawing etc.

## Customising

The present data are data applying to our standard version. Application-specific modification of the construction material values and colours is possible.

The Compur values listed in this data sheet are average values. Our products are produced with the greatest care and are subject to constant quality checks. The raw materials originate largely from type-pure regenerates. We are aware that for the same applications different raw material types from different manufacturers have been used so that no constancy of assembly can be guaranteed by the supplier side. We do not know the products made from Compur and recommend that tests be carried out before use and, if necessary, approval of the parts should be obtained from your customer.

