

Material data sheet

**EPM-Sunblend-PPSF-5545**

The following data provide an indication of the mechanical properties when the EPM-Sunblend-PPSF-5545 Batch is used in various blends.

This batch contains 55% sunflower seed fibers as reinforcing agent. We recommend an MVR range of the used PP to be used for mixing (blending partner) of 20 - 40 cm<sup>3</sup> / 10min.

The less batch is used, the tougher the blending partner may be without adversely affecting the process. The values refer to the veneering with a PP copolymer MVR 40 with a modulus of 1200 MPa and a tensile strength of 26 Mpa. If other blending partners are used, the values will change.

Fibers from sunflower seed husks are a by-product of sunflower oil production. They are GMO-free, do not compete with food and do not require additional cultivation areas. EPM-Sunblend-PPSF-5545 has a lower carbon footprint than comparable materials.

**Mechanical properties**

Properties	Norm	Unit	Value	Value	Value	Value
Mixing ratio batch:PP			2:1	1:1	1:2	1:3
Density	ISO 1183	g/cm3	1,02	1,01	0,98	0,97
MVR	ISO 1133	cm3/10min	Depends on the blinding partner			
E-module	ISO 527	MPa	1700	1600	1450	1350
Tensile strength	ISO 527	MPa	20,6	21,7	21,5	23
Breaking elongation, nominal:	ISO 527	%	8	13	13	14
Charpy unnotched 23°C	ISO 179/1eU	kJ/m2	25	28	34	36
Charpy notched 23°C	ISO 179/1eA	kJ/m2	3,9	4,4	5,3	6,1

**Processing conditions**

Melt temperature injection molding	°C	180 - 190
Tool wall temperature	°C	20 – 60
Drying temperature	°C	80
Drying time	h	4
Maximum residual moisture	%	0,04

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