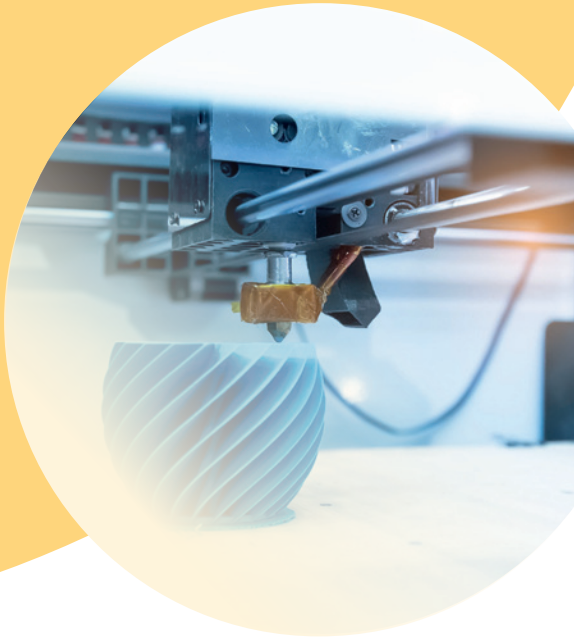
We are binding

MOWITAL® G multi-talented thermoplastics

POLYMERS OF THE MOWITAL® G SERIES ARE AMORPHOUS THERMOPLASTIC POLYMERS WHICH ARE PROVIDED AS GRANULES WITH LOW RESIDUAL WATER CONTENT (< 0,5 %).

Even more applications with G: With the MOWITAL® G Series, Kuraray offers the PVB (polyvinyl butyral) materials of its Mowital brand as granulated grades as well.
With the range of powders, granules and thin films, users in various application areas benefit from the unique properties and quality with which the European market leader for technical PVB materials sets standards across the globe.



Properties of MOWITAL® G

- polyvinyl butyral-based polymers
- granules
- amorphous thermoplastic polymer
- colourless and lightfast transparent
- excellent adhesion to glass, metals, wood, and ceramics (thermoplastic adhesive)
- low residue moisture content (below 0,5 %)
- burns out without residue
- non-toxic and dust-free

Applications of MOWITAL® G

- appropriate for 3D-printing
- suitable for thermoplastic processing (injection moulding and extrusion processes)
- compatible with various plastics, e.g. PMMA, PA, PVC, ABS, TPU, or thermoplastic elastomers
- use as compatibiliser and dispersing additive for pigments, inorganic fillers, metal particles
- adhesion promoter (glass, metals, wood, ceramics, etc.)
- use for formulations with high-colour purity
- reactivity of free OH-groups (cross-linking, base for chemically modified PVB-binders)
- compliance with food regulations

kuraray

Mowital®

MOWITAL® G product portfolio

Specification data

The data are determined by our quality control for each lot prior to release.

Grade	Non-volatile content [%][1]	Content of polyvinyl alcohol [%][2]	Content of polyvinyl acetate [%][3]
MOWITAL® G 13	≥ 99,5	24–27	1–4
MOWITAL® G 16	≥ 99,5	24–27	1–4
MOWITAL® G 36	≥ 99,5	18–21	1–4

1) according to DIN 53216
2) according to DIN 53240
3) according to DIN EN ISO 3681

MOWITAL® G grades range

Additional data

These data are used solely to describe the product. They are not subject to constant monitoring or part of the specification.

Viscosity in solution (10 % ethanol) [mPas][1]	30–280
MFR (2,16 kg/190 °C) [g/10 min][2]	1–22
Tg [°C][3]	70–72
Softening temperature [°C][4]	140–210
E-modulus [N/mm²][5]	2480–2750
Yield strength [N/mm²][5]	55–60
Bulk density [g/L][6]	600–750
Charpy impact (not notched) [KJ/m²][7]	107–110
Charpy impact (notched) [KJ/m²][7]	2–4
Vicat B 120 [°C][8]	66–73
Shore D[9]	79–83

1) viscosity in ethanol at 20 °C
2) according to ISO 1133
3) DSC, according to ISO 11357-1
4) ring and ball method, DIN EN ISO 4625
5) according to ISO 1269 at 105 °C
6) according to ISO 60
7) according to DIN EN ISO 179
8) according to DIN EN ISO 306
9) according to DIN ISO 868

Kuraray Europe GmbH
Philipp-Reis-Str. 4
65795 Hattersheim am Main
Germany

marketing-pvb@kuraray.com
www.mowital.com