

DOMAMID® AF

Higher productivity and thinner walls



The strength of chemicals.

Save money, save time, save energy, with DOMAMID® AF

Processing advantages

- Lower filling pressure
- Longer moulding machine life time
- Cycle time reduction up to 25%
- Higher productivity
- Savings in energy and production costs
- Easy filling of thin walls
- Sophisticated design



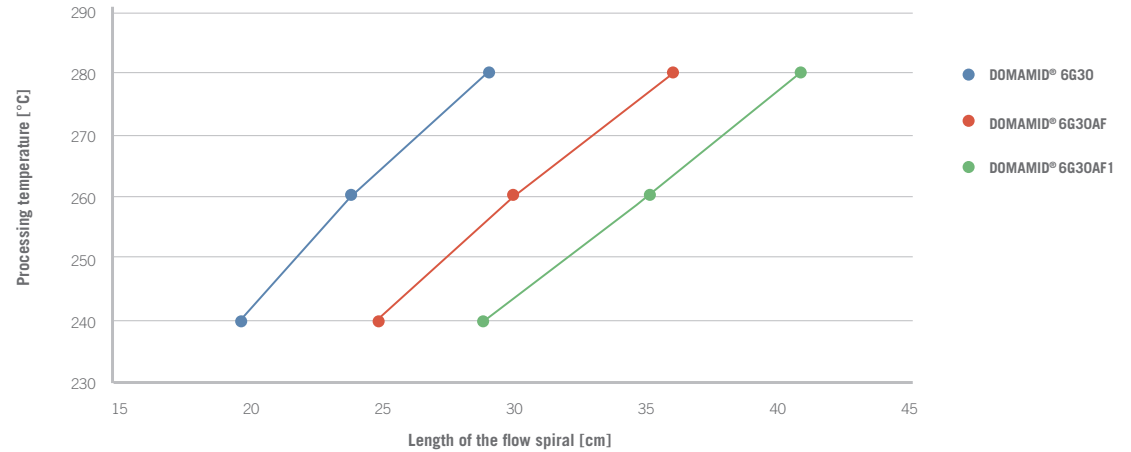
The clear improvement in the flow properties of DOMAMID® AF and AF1 products can be seen in the length of the flow spiral.

Material properties

Property	Unit	DOMAMID® 6G30	DOMAMID® 6G30 AF	DOMAMID® 6G30 AF1
MFI (275°C - 5kg)	g/10'	60	110	150
MVR (275°C - 5kg)	cm³/10'	45	80	110
Viscosity Number (H ₂ SO ₄)	-	145	125	110
Spiral Flow test	cm	20	25	28
Tensile Modulus	MPa	9500	9400	9400

Another important aspect of the utilization of high flow materials is the reduction of the processing temperature.

The overall energy demand of an injection molding process depends on a number of parameters, such as the size and geometry of the part and the machine parameters. The figures for energy consumption are different for each process. The heating energy, however, accounts for the majority. If processing temperature can be lowered, the cycle time will be automatically reduced, resulting in energy saving and increased productivity.



Graphic 1: In order to achieve a comparable flow length the processing temperature with DOMAMID® AF and AF1 can be reduce by approximately 40 °C compared with standard PA6, 30% glass fibre reinforced

DOMAMID® high flow product line

DOMAMID® 6 G30 AF	PA6, 30% glass fibre reinforced, high flow level 1
DOMAMID® 6 G30 AF1	PA6, 30% glass fibre reinforced, high flow level 2
DOMAMID® 6 G40 AF	PA6, 40% glass fibre reinforced, high flow 1
DOMAMID® 6 G40 AF1	PA6, 40% glass fibre reinforced, high flow 2
DOMAMID® 6 G50 AF	PA6, 50% glass fibre reinforced, high flow level 1
DOMAMID® 6 G50 AF1	PA6, 50% glass fibre reinforced, high flow level 2
DOMAMID® 6 G60 AF	PA6, 60% glass fibre reinforced, high flow 1
DOMAMID® A1-127-V-40-H2	PA6, 40% glass fibre reinforced, long term heat stable, high flow 1
DOMAMID® A1-111-V-50	PA6, 50% glass fibre reinforced, high flow 1
DOMAMID® A1-125-V-50-H2	PA6, 50% glass fibre reinforced, long term heat stable, high flow 1