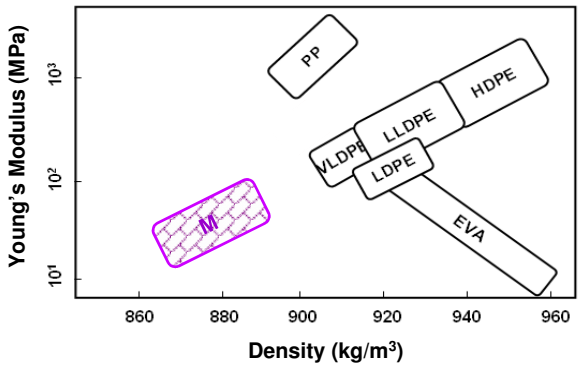
TAFMER™ M

A modified ethylene based α-olefin copolymer

TAFMER™ M is an ethylene based α-olefin copolymer grafted with polar group. It is used as a modifier for Engineering Plastics such as PA6 and PA66 to improve impact resistance.

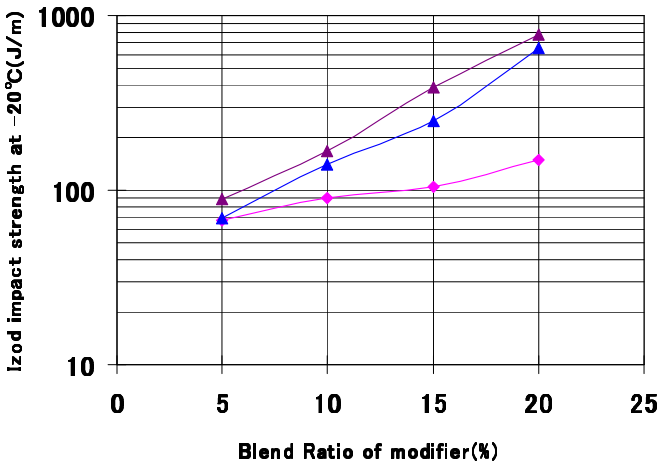
General characteristics attributed to TAFMER™ M :

- Low Glass transition temperature for Low Temperature Impact Strength
- Presence of polar group for Compatibility with polar polymer



Impact resistance Modification

Impact resistance of Engineering Plastics compound is not sufficient for injected molds typically used for automotive and industrial applications.
TAFMER™ M improves impact resistance especially under low temperature in accordance with market needs.



PA6 / TAFMER™ M = 95-80 / 5-20 %
PA6 : Specific gravity=1.13, Tm=225℃
TAFMER™ M :
◆ : MA8510
▲ : MH7010
▲ : MH7020

Mitsui Chemicals Group
MELS MITSUI ELASTOMERS SINGAPORE PTE LTD

Summary

TAFMER™ M

☑ Improves impact resistance

Basic Properties

Physical Properties	Test Method	Unit	MH5020C	MH7010	MH7020	MD715	MA8510
MFR(190℃/2.16kg)	ASTM D1238	g/10min	0.6	0.9	0.7	0.5	2.4
MFR(230℃/2.16kg)	ASTM D1238	g/10min	1.2	1.8	1.5	1.3	5.0
Density	ASTM D1505	kg/m³	866	870	873	872	885
Mechanical Properties							
Tensile Strength at Break	ASTM D638	MPa	> 3	> 8	> 8	> 15	> 24
Elongation at Break	ASTM D638	%	> 1000	> 1000	> 1000	> 1000	> 1000
Surface Hardness (Shore A)	ASTM D2240	—	55	70	70	73	86
Thermal Properties							
Brittleness temperature	ASTM D746	℃	< -70	< -70	< -70	< -70	< -70

Note: All of the above listed data are representative values, and not specific ones.

EU Directive

All the monomers and additives used in the above TAFMER™ grade are listed in the EU Directive 2002/72/EC and its amendment 2008/39/EC.
The only additives with Specific Migration Limit (SML) are:
n-Octadecyl 3,5-di-t-butyl-4-hydroxy hydrocinnamate (CAS No.2082-79-3, Ref No.68320)
: SML= 6mg/kg

Please ensure that the SML and Overall Migration (OM) are within the specified value in the end-use products,.