

Breakthrough Newsheet

AsahiKASEI

11 May, 2009

Grade: TUFTEC™ MP10

Asahi Kasei Chemicals Corporation Synthetic Rubber Division

Elastomer Sales Dept. 2

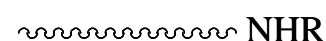
1-105 Kanda Jinbocho, Chiyoda-ku, Tokyo 101-8101 Japan

Impact modification of PLA by using F-SBBS, TUFTEC™ MP10

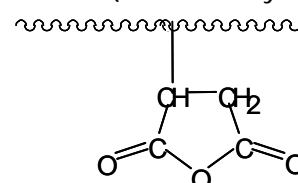
- ◆ TUFTEC™ MP10 performs as an impact modifier for PLA.
- ◆ TUFTEC™ MP10 is also effective as a compatibilizer between PLA/Polyolefin, or PLA/Polystyrene.

Property	Test method	Units	MP10
Functional group	-	-	Amine
Specific gravity	ISO 1183	-	0.91
MFR (230Deg. C, 2.16kgf)	ISO 1133	g/10 min	4
Hardness	ISO 7619	-	89
Tensile strength	ISO 37	MPa	28
Elongation		%	600
300% tensile stress		MPa	5.6
S/EB weight ratio	Asahi Kasei Method	%	30/70
Product form	-	-	Pellet

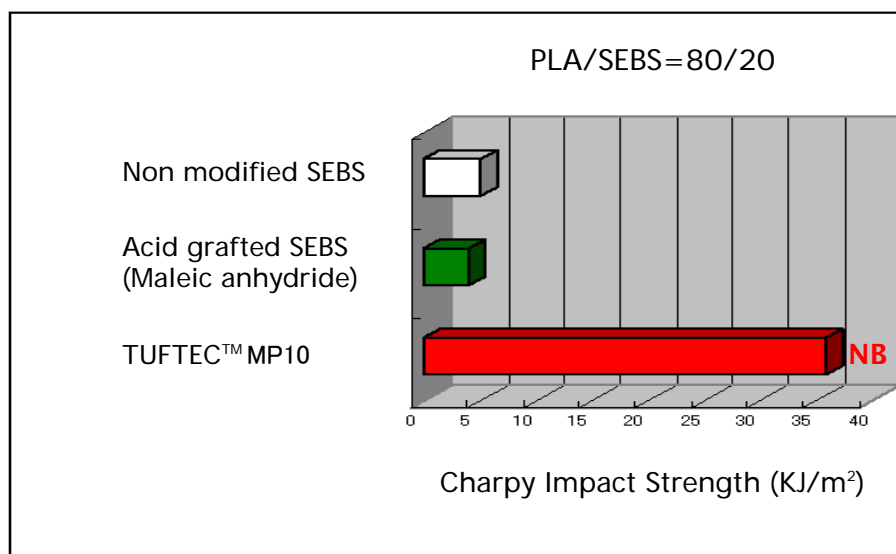
Structure image of TUFTEC™ MP10



Structure image of typical acid grafted SBES (Maleic anhydride)



Improvement of impact strength of PLA with TUFTEC™ MP10



All data and values based on specific test methods, and given for basic reference only and not as any warranty or specification. Applications shown for illustration only, and represent no warranty of suitability or non-infringement of intellectual property rights.

TUFTEC™ is a trademark of Asahi Kasei Chemicals Corporation.

