

TABOND 3042 Impact Modifier for PA

Tabond 3042 is a chemically modified Ethylene Copolymer/LLDPE.

Applications:

- Modify the impact of polyamide for temperature as -40 °C
- Modify the impact characteristics of other engineering thermoplastics and technical polymers
- Achieve compatibility between polyolefins and more polar polymers that are capable of interacting with maleic anhydride

Physical properties

Density	0,875	g/cm ³
Melt flow index 190 °C, 2,16 kg	2,0	g/10 min
Melting point (DSC)	123,2	°C

Appearance: White, free -flowing pellets.

Packaging: TABOND 3042 is supplied in 25 kg bags.

Storage and handling (Security):

TABOND 3042 may contain traces of non-bonded maleic anhydride, which is an irritating substance. The work place should have an effective ventilation system. Please pay attention to the instructions in the safety data sheet.

Impact modification of PA6

		W 5649	W 5646	W 5650	W 5647	W 5648
Ultramid B3	100	90	90	70	70	70
Impact modifier Tabond 3042		10		30		
Formulation 1			10		30	
Formulation 3						30
MFI 275°C/ 5 kg [ml/10min]	128	102	108,3	6,8	19,4	27,6
(test conditions - dry)						
E modulus [MPa]	2561	2199	2219	1318	1364	1326
Yield strength [MPa]	77,1	62,9	61,5	36	35,4	35,7
Elongation at yield	4,6	4	4	4,9	4,5	4,4
Elongation at break [%]	62	46	24	233	173	155
IZOD notched 23°C [kJ/m ²]	5,4	16,7	17	NB (97.5)	NB (87.4)	NB (77.4)
IZOD notched 0°C [kJ/m ²]	5,8	15,3	14,4	NB (103.3)	NB (88.7)	NB (82.5)
IZOD notched -40°C [kJ/m ²]	2,6	9,1	9,7	55,1	43,3	NB (77.9)
Charpy unnotched 23°C [kJ/m ²]	NB	NB	NB	NB	NB	NB
Charpy unnotched 0°C [kJ/m ²]	NB	NB	NB	NB	NB	NB
Charpy unnotched -40°C [kJ/m ²]	NB	NB	NB	NB	NB	NB

*NB = no break