

Technical Guideline pag. 1/2

Aadibond® EC1206 & EC1235

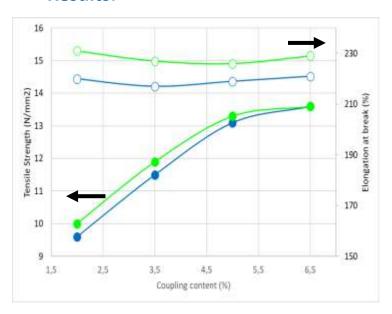


Introduction:

Aadibond® EC1206 and EC1235 are maleated LLDPE especially designed to be the best coupling agents for HFFR/LSZH/ZHFR cable compounds. The performances are described by experimental data in highly crack-resistant formulations used in big armoured cables and containing both fine precipitate ATH and milled MDH.

Formulation	%
EVA28 MFI=3	14,25
POE d=0,87 MFI=5	14,25
mLLDPE MFI=3-5	10 to 3,5
Aadibond	0 to 6,5
ATH Apyral 40CD	50
Natural milled MDH	10
Silicon MB	1,25
Stabilizer / AOx	0,25
TOTAL	100

Results:



- ✓ Optimal dosage of Aadibond® **EC1206** and **EC1235** is between 3.5 and 5%
- ✓ EC1235 shows slightly superior mechanical properties

Melt Flow Index (21.6kg@160°C):

✓ EC1235 shows slightly higher MFI at any dosage

MFI with	MFI with
EC1206	EC1235
11,2	11,2
8,3	9,1
7,8	8,8
7,4	8,4
7,1	7,9
	11,2 8,3 7,8 7,4

Marketed by:



Aquent Advance Material Technologies Pvt Ltd

607, Universal Majestic, Off. Eastern Express Highway Chembur (W), Mumbai 400043. INDIA

Email: info@aquent.in | web: www.aadibond.com

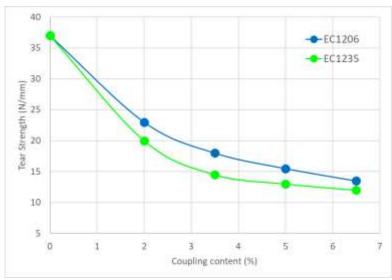


Technical Guideline pag. 2/2 Aadibond® EC1206 & EC1235

Tear strength at 23°C:

- Aadibond EC1206 gives slightly higher tear strength at any dosage
- The highest tear strength is WITHOUT any coupling





Crack-resistance:

Crack-resistance is tested by measuring the propagation of 2mm-deep / 20mm-wide cut on 6mm-thick specimens under bending stress and stored at 50°C into oven



✓ Both Aadibond EC1206 and EC1235 give excellent crack-resistance: the cut did NOT propagate at all after 5h@50°C and only a little bit after 24h@50°C



Conclusions:

- ✓ Aadibond EC1235 gives slightly lower values of tear strength at any dosage in comparison to EC1206, but absolutely no any difference into crack-propagation test
- ✓ Optimal dosage of Aadibond to have the best crack resistance is in the range 3.5% to 5%.



Marketed by:



Aquent Advance Material Technologies Pvt Ltd

607, Universal Majestic, Off. Eastern Express Highway Chembur (W), Mumbai 400043. INDIA

Email: info@aquent.in | web: www.aadibond.com