

POLYPLASTIC Group



Russian
market leader



27 Oct – 3 Nov
2010
Düsseldorf



Materials for Major Domestic Appliances (MDA).



Russia and CIS countries - World leaders of MDA market :
Washing machines, Refrigerators, Cookers, Vacuum cleaners,
Conditioners, etc.



APPLIENCES



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Russian MDA market today is №2 in Europe
and it still going to grow in next 2-3 years

Driving forces for Russian MDA:

- Economic growth increased consumer buying power
- Additional 10 million middle class households in next 2-3 years
- Replacement of old washing machines from the 1990'ies
- Modern trade system (distribution) has made products more available
- International companies are setting up local production, lowering cost/price making products more affordable

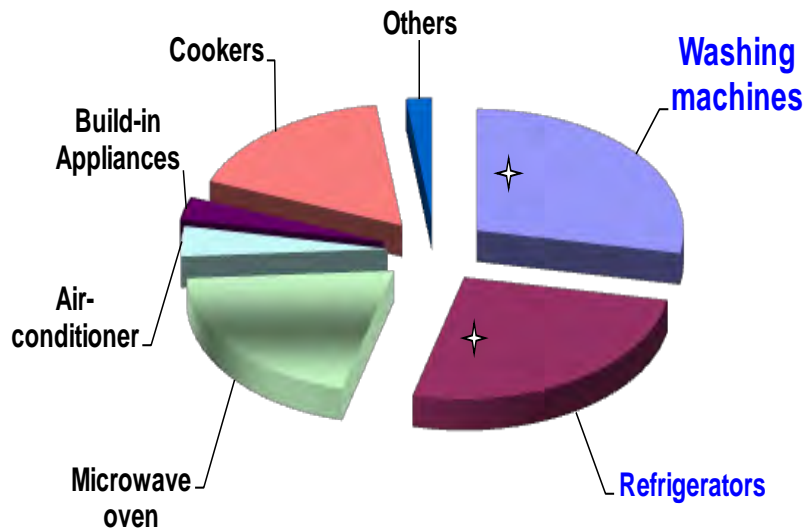


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Leaders in MDA in Russia



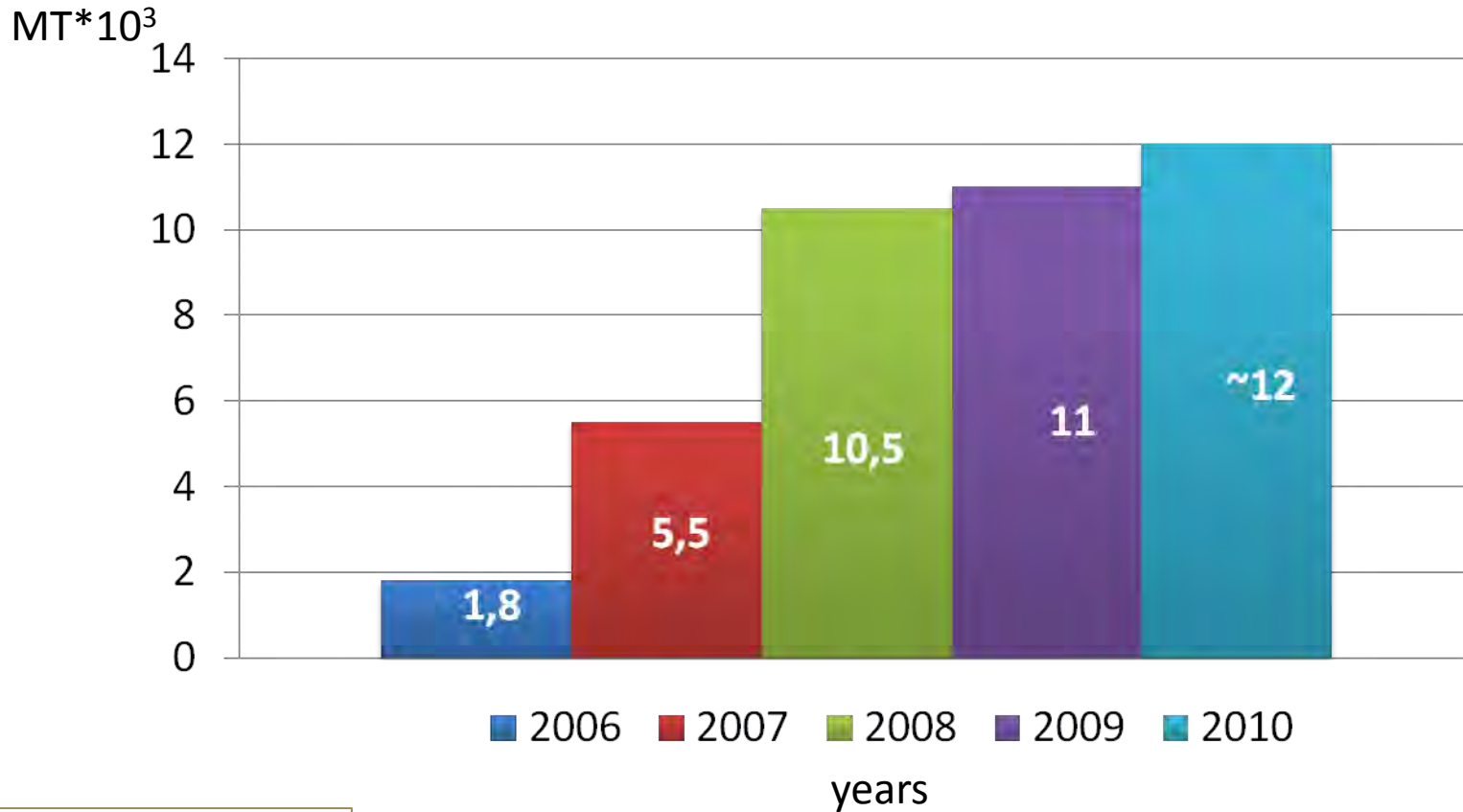
Primary segments on the market are Refrigerators. Share in turnover - 37%

Washing Machines are N^o2 Share - 28%

APPLIENCES



Polyplastic sales for MDA area



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Our partners : companies that have own production facilities in Russia and CIS

 **Electrolux**



BEKO

B/S/H/



 **INDESIT**

 **LG**

VESTEL

CANDY

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Product list

Grades	Description
Armlen PP MD 20-3HS Armlen PP MD 40-2HS Armlen PP MD 40-5HS Armlen PP MD 40-8HS Armlen PP MD 50-2HS	PP homo + 20, 40, 50% CaCO ₃
Armlen PP MD 40-3M	PP copo + 40% CaCO ₃
Armlen PP MF 30-3HS Armlen PP MF 30-4HS	PP homo + 30% Talcum
Armlen PP GF 30-3HS Armlen PP GFMF 30-1	PP homo + GF 30% PP homo + GFMF 30%

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Main Applications

Washing machine tub slow rotation speed (<800 RPM)

Armlen PP MN 40-2HS

Armlen PP MN 40-8HS

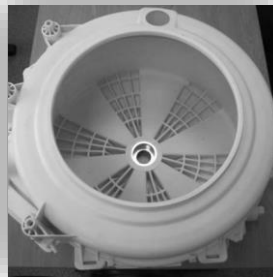
Washing machine tubs high rotation speed (> 1000 RPM)

Armlen PP GF 30-3HS

Washing machine tubs direct drive

Armlen PP GFMF 30-1HS

- Heat stabilized
- Hydrolyses stabilized
- UV stabilized
- High impact resistance
- High stiffness
- Detergent resistance
- Easy processing
- Meet RoHS requirements
- Antibacterial additives



APPLIENCES

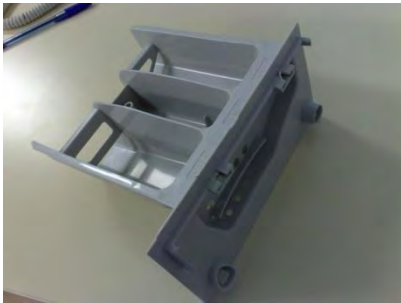


Main Applications

Dispenser parts

Armlen PP MN40-5HS

Armlen PP MN20-3HS



- Heat stabilized
- Hydrolyses stabilized
- High impact
- High stiffness
- Detergent resistance
- Nucleated
- Easy processing
- Good flowability
- Low warpage
- Meet RoHS requirements



APPLIENCES



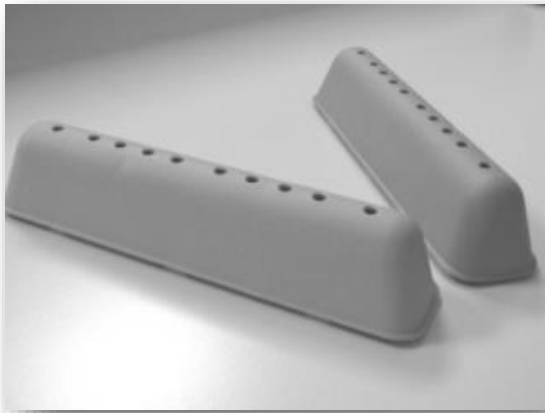
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Main Applications

Tub baffles

Armlen PP MN40-8HS

Armlen PP MN40-2HS



- Heat stabilized
- Hydrolyses stabilized
- UV stabilized
- High impact
- Detergent resistance
- Easy processing
- Low warpage
- Meet RoHS requirements

APPLIENCES



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Main Applications

Fridge boxes

Armlen PP MN 40-8HS

Armlen PP MN 40- 3IM

Armlen PP MF 30-3HS



- Heat stabilized
- UV stabilized
- High impact resistance at low temperatures
- Easy processing
- Good flowability
- Low warpage
- Meet RoHS requirements



APPLIENCES



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Main Applications

Glass shelves overmolding

Armlen PP MF 30-4HS



- Heat stabilized
- UV stabilized
- High impact resistance at low temperatures
- Easy processing
- Good flowability
- Meet RoHS requirements

APPLIENCES



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Polyplastic's materials main advantages, competitiveness

- ISO 9002 certified
- Local raw materials
- Local facilities
- Competitive prices
- Technical support
- Efficient Logistics



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Thank you for attention!

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