

Responsible Disposal of Flame Retarded Foams & Plastics

Mechanical Treatment of FPF – The Recycling Solution

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Carpet Cushion Council



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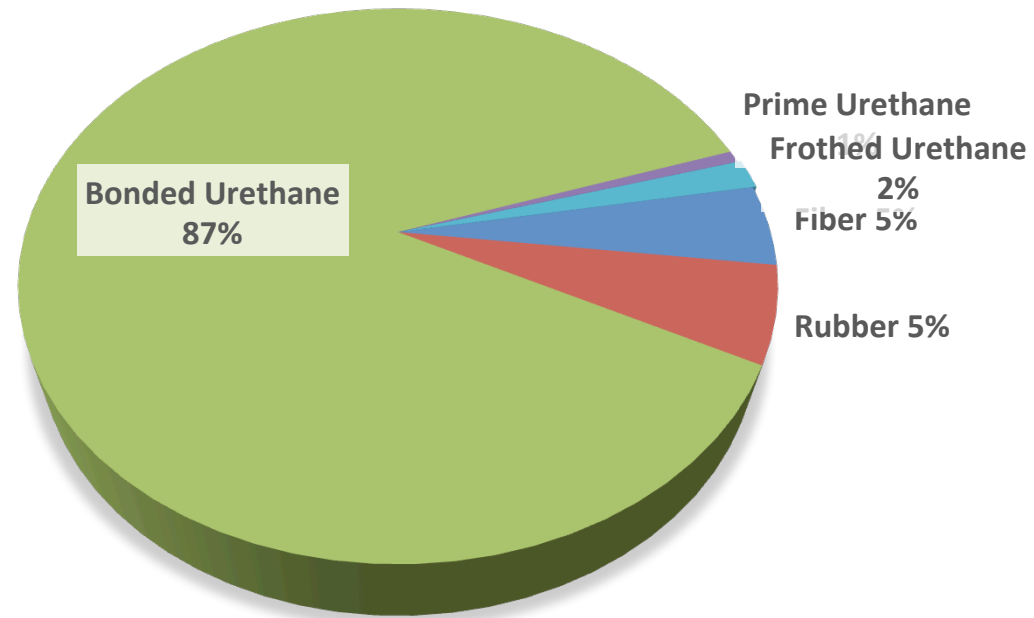
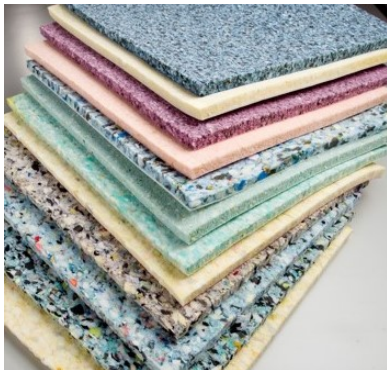
Who Is The Carpet Cushion Council?

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- **17 Carpet Cushion Manufacturers**
 - United States & Canada
 - Affiliates: UK/AU/NZ/MYMany Also Produce FPF
 - **11 Associate Members**
 - Provide Raw Materials & Services

Cushion Industry Plays a Key Role In:

- Carpet Industry – Essentially all US carpet installed over cushion
- FPF Industry – Cushion provides an effective & economical outlet for post-industrial scrap
- Reduction of waste to landfills

Bonded Carpet Cushion Accounts for Almost 90% of the North American Market



Bonding Process Turns FPF Scrap Into High-Quality Cushion Products



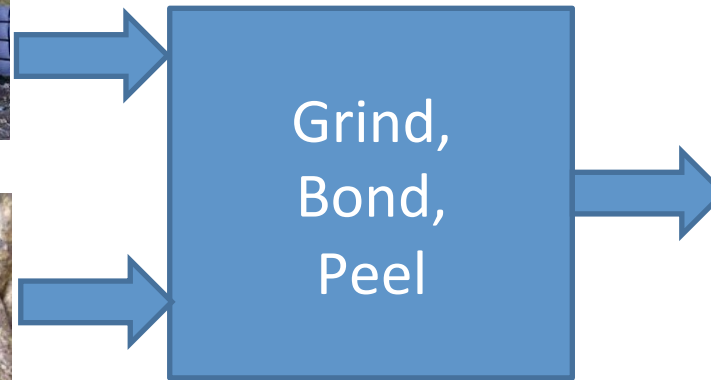
Post-Industrial

Mattress
Furniture
Automotive



Post-Consumer

Take-up Cushion
Mattress



Grind,
Bond,
Peel



Bonded Cushion Manufacturing Diverts Over 1 Billion Lbs./Year From Landfills Worldwide

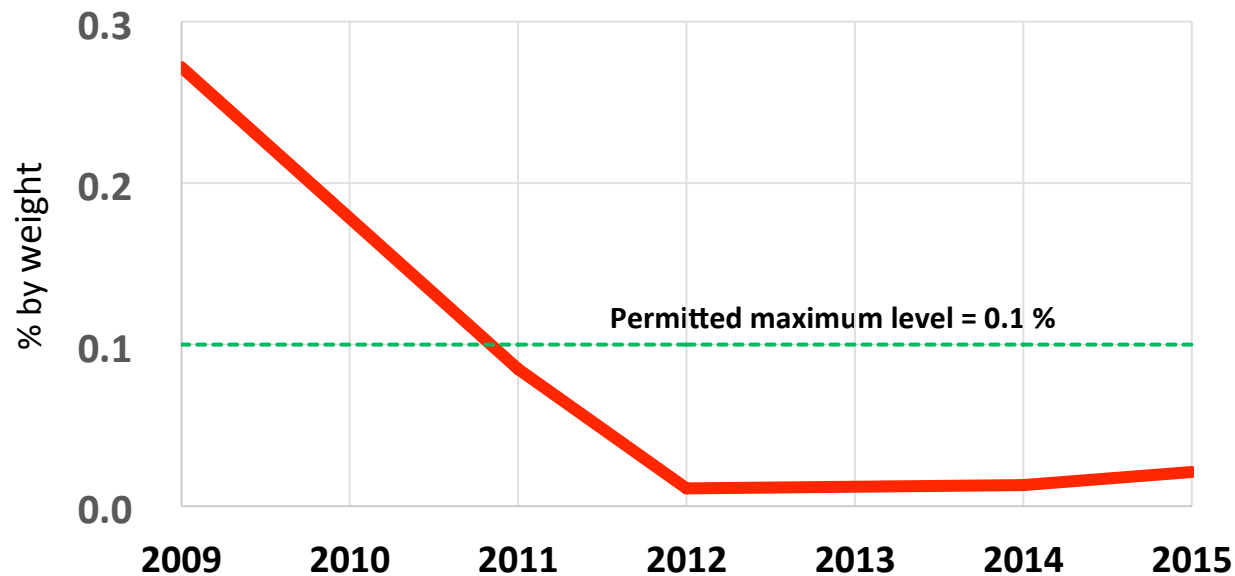
Scrap Type	Million Lbs. Per Year
Post-Industrial Domestic	600
Post-Industrial Import	250
Post- Consumer	<u>200</u>
TOTAL	1,050

**This corresponds to almost 600 Million Cubic Feet
of Material Kept Out of Landfills Each Year**

Reduction in Levels of FR's is Important

- Cushion Manufacturers do NOT add any FR's
- PentaBDE use in Furniture stopped in 2004
- CCC monitoring PBDE levels in Bonded Cushion since 2009
- PBDE showed steady decline
- Now well below 0.1% level mandated by some states

PBDE in Bonded Foam



Reduction in Levels of FR's is Important

- CCC continues monitoring PBDE levels in Bonded Cushion
- Beginning to track alternate FR's such as TDCPP –
 Expect to see similar decline
- Challenges:
 - No viable field test for levels of FR's
 - Wide variability in scrap quality – Diverse sources

**CCC Goal: Continued Reduction in
PBDE'S and Halogenated FR'S In Bonded Cushion**

Questions?

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