



PC/ABS IMPACT MODIFICATION USING DOW ELVALOY™

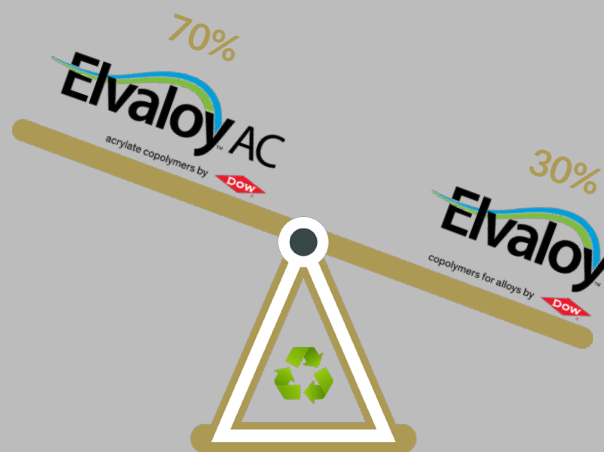


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Dow ELVALOY™ AC and ELVALOY™ are ethylene acrylate copolymers and terpolymers and are used to impact modify a variety of different polymers and are especially effective in impact modifying PC/ABS blends. For blends containing less than 50% PC content, ELVALOY™ AC 1330 can be used to effectively increase the notched impact strength down to 0°C. In high ABS content PC/ABS blends, ELVALOY™ AC 1330 has proven to be especially effective. For blends with PC content greater than 50%, a 70/30 blend of ELVALOY™ AC 1330 and Elvaloy™ PTW is recommended in order to minimize any potential delamination issues. The total loading level of ELVALOY™ AC or ELVALOY™ AC + ELVALOY™ PTW should not exceed a maximum of 7%.

In recycled PC/ABS compounds where the percentage of PC may not be known, a 70/30 blend of ELVALOY™ AC 1330 + ELVALOY™ PTW is strongly recommended.



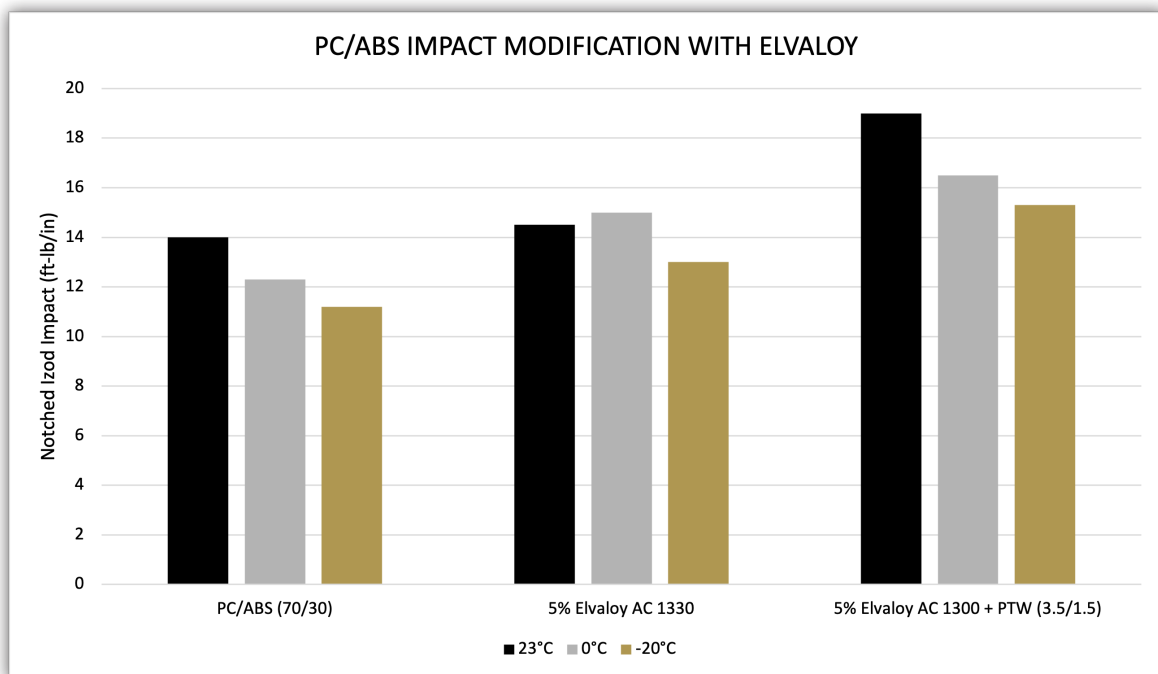
Blends of Elvaloy™ AC 1330 + Elvaloy™ PTW show the best balance of performance, offering:

- ✓ Improvements in impact strength at 23°C, 0°C and -20°C
- ✓ Significantly improved elongation
- ✓ Significantly reduced delamination
- ✓ Reduced melt viscosity
- ✓ Good thermal stability
- ✓ Minimum loss of HDT

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PROPERTY	UNITS	TEST METHOD	ELVALOY AC 1330	ELVALOY PTW
Acrylate Type	---	---	MA	BA
Acrylate Content	%	---	30	---
Density	g/cm ³	ASTM D792	0.950	0.940
Melt Flow Rate	g/10 min.	ASTM D1238	3	12
Melting Temperature	°C	ASTM D3418	85	72



Common Applications



Automotive Glove Boxes



Automotive Overhead & Middle Consoles



Automotive Knee Bolsters



TV Frames



Laptop Monitor Enclosures

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