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AWARD 2018
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International Automotive Components

BIO Foam

IAC’s BIO Foam material is castor-based, wherein a portion of the petroleum-based polyol is replaced with a natural castor oil-based compound, providing a weight savings of up to 50 percent compared to conventional polyurethane-based foam. It can be molded in as little as three-millimeter cross sections and exhibits better bond strength compared to traditional petroleum-based foams. On the Ford Mondeo / Fusion limousine, IAC applied BIO Foam using a foam-in-place (FIP) process, where foam is injected between the skin and retainer to produce a thin foam layer contributing to a lighter and more sustainable instrument panel.

Category:
Module

Application:
2018 Ford Fusion

Weight Savings:
20%
Lighter than the standard component

Methodology:
Material Optimization

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