高耐冲击轻量发泡基材

Lightweight Molded Foam Base Material with High Impact Resistance

产品概要 / Product Summary

使用具有全球顶级耐冲击性的树脂材料制作的门板。使用发泡成型技术，维持高冲击性能，但产品重量减轻了 20%。

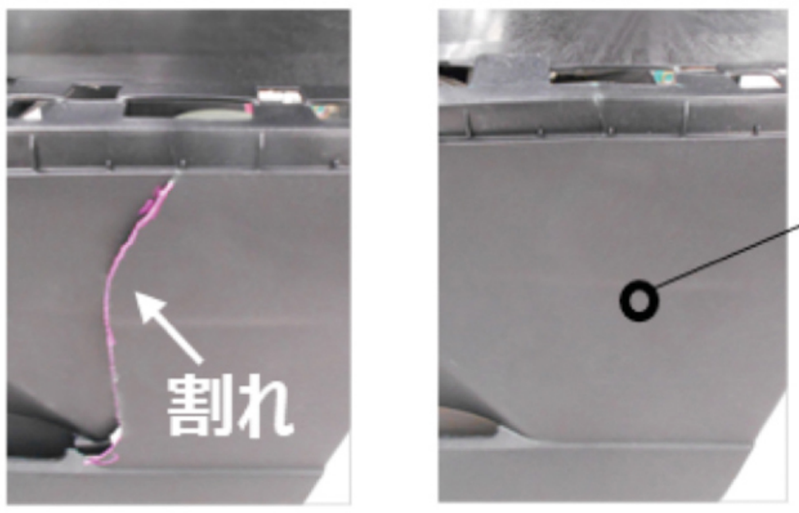
The “high impact strength form plastic” door trim is crafted from the world's top resin materials of impact strength. Keeping high impact strength and 20% lighter weight by foam injection molding technology.

特征 / Features

发泡成型基础材料减轻质量的效果很明显，但容易开裂。使用本公司研发的高耐冲击塑料，可以解决开裂的问题。

The foam injection molding material is be used to diminish weight effectively, but easy to crack. The high impact strength form plastic ,a new material originally developed by TOYOTA BOSHOKU could solve the problem of cracking.

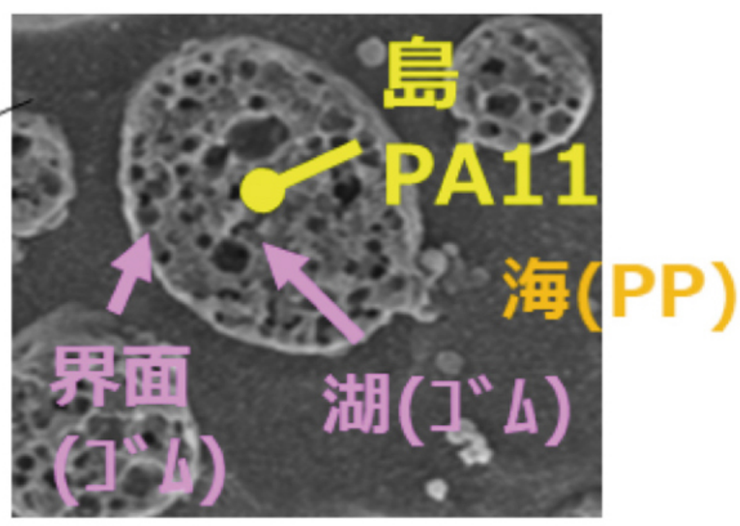
发泡材料的课题和对策
Issues and Countermeasures of The foam material



通过添加高耐冲击塑料（TBi-Alloy）可减少发泡材料中的裂缝

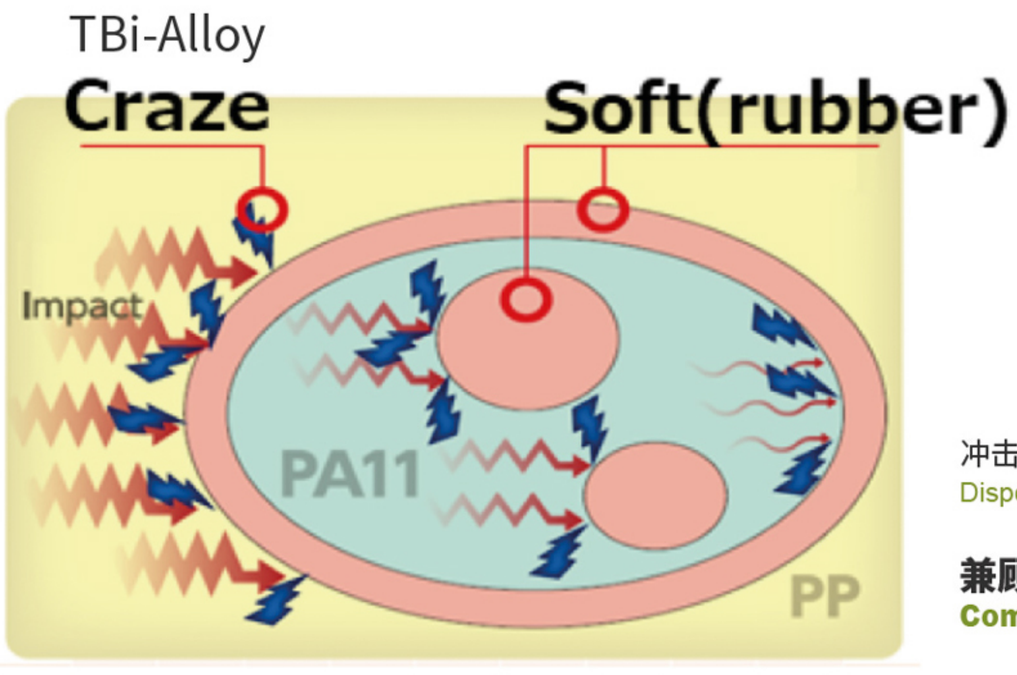
The cracks are reduced in foam material by adding the high impact strength form plastic

萨拉米结构
Salami structure



冲击时萨拉米结构中的软橡胶会有效地产生龟裂，分散能源，吸收冲击
* 龟裂（输入冲击时发生的微小的裂痕）

The Soft rubber in the salami structure will effectively crack, disperse and absorb energy from the point of impact. .
*Cracks (Tiny cracks in the impact)



冲击吸收示意图
Dispersion and absorption

兼顾轻型化和耐冲击性
Combine with lightweight and heavy strength

效果 / Results

轻量化：与现有的 Crown 中使用的材料 (PP) 相比，重量减轻 21%。

Lightweight: Compared with current material (PP) using in Car model of Crown, its weight lightens by 21%.

TOYOTA BOSHOKU