



NEW

Performance Additives iM30K

Hyundai Mobis IP Core Part Development Project

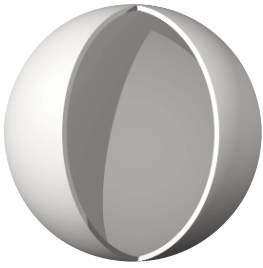
Recently, the Hyundai Mobis IP Core Part Development Project completed a 19-month long series of tests comparing PC/ABS with a new polypropylene material filled with 3M™ Performance Additives iM30K for use in molding automotive instrument panel core parts. According to Mr. S. Ka, Research Engineer for the Cockpit Module Design project, the use of 3M iM30K additives has demonstrated a number of important advantages.

“We were exploring new material formulations that would help reduce overall part weight and costs in the production of instrument panel core parts,” explains Ka. “Using the polypropylene material that contained 3M Performance Additives iM30K, we achieved a 16.8% weight reduction and the finished part cost was 50% lower than PC/ABS IP cores. In addition, we experienced improved material flowability than PC/ABS and better dimensional stability compared to current talc filled polypropylene.”



**MORE
MUSCLE**
LESS WEIGHT

PROJECT SUMMARY



Materials used:

Talc filled polypropylene
3M™ Performance Additives iM30K

Features:

- 16.8% weight reduction vs. PC/ABS
- Improved dimensional stability
- Reduced part warpage
- Improved material flowability in mold
- Allowed use of existing tooling

Cost Reduction

Total part cost is 50% less than current PC/ABS model IP Core Part

Cost reduction is based on price of materials in Korea

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