



Powertrain

Intake Manifold with 2-Shot Molded Power Valve

OEM/Vehicle

FCA US LLC
2017 Dodge RAM

System Supplier

MAHLE Filter Systems

Material Processor

MAHLE Filter Systems

Material Supplier

Dupont Automotive

Resin

Hytrel 3078 HS BKB320 TPC-ET

Tooling/Equipment Supplier

MGS Mfg. Group



This air intake manifold blade was made via a 2-shot molding process overmolding a thermoplastic polyester elastomer over a 36% mineral filled nylon 66. in the same tool. The previous process required two suppliers - one to injection mold the nylon portion of the blade and another to compression mold a rubber-FKM surround requiring additional assembly. This new process resulted in a 33% direct part savings and additional freight and transit savings using one location to manufacture the part in place of three.