



6th Petrochemical Conclave

29th July 2017, Mahatma Mandir, Gandhinagar, Gujarat

Under the aegis of



Ministry of Petroleum
& Natural Gas
Government of India

Coordinated by



IndianOil

Advanced Additive Technologies for Polypropylene Based Automotive Applications

Mr. Shin Ishikawa

*General Manager- Additives Solution Department & Head- Global Technical Service
Adeka Corporation Ltd*

Synopsis

The performance requirements for polypropylene based automotive interior and exterior parts have become quite demanding in recent years. Apart from tailoring polymer formulations and blends, one of the most promising ways to improve a wide variety of the performance attributes is effective utilization of polymer additive technologies, particularly combining appropriate high performance additives for polypropylene such as multi-component HALS (Hindered Amine Light Stabilizer) system, nucleating agents and Flame Retardant.

This presentation describes the total additive solutions approach to have synergistic effect on a number of improvements desired for automotive parts. For example, an advanced HALS system, ADK Stab LA-402AF, can provide remarkable weathering resistance with no blooming and fogging or plate-out. An advanced nucleating agent, ADK Stab NA-27, can give outstanding stiffness and crystallization temperature at lower loading level, and an advanced halogen-free Intumescent Flame Retardant system ADK Stab FP-2000 series, can provide excellent flame retardancy with low smoke density and low generation of CO gas during combustion.

This total additive solution technology can enhance the value of polypropylene and expand the potential in this application.