



Advanced Cable Compounding Solutions

Swiss Innovation meets Indian Manufacturing Excellence.

MCA Technologies GmbH, Switzerland is a globally operating company, supporting R&D and business development in the speciality chemicals and life sciences industries.

Cables, wires, HFFR compounds, PA6, PA66 GF, PP, PE, PMMA



Meet the Visionary

Dr. Bansi L. Kaul



Academic Excellence

Institute of Chemical Technology, Mumbai
Swiss Federal Institute of Technology, California Institute of Technology



Industry Impact

60+ US Patents, 100+ publications, 30 years directing commercialisation of 20+ Chemically New Molecular Entities



Global Leadership

Former Director of R&D at Sandoz, Switzerland (now Clariant), renowned for technical presentations worldwide

Strategic Partnership



Swiss Innovation

MCA Technologies GmbH brings cutting-edge R&D and patented flame-retardant technology from Switzerland



Indian Manufacturing

Advanced production facility at Anar Chemicals, Vatva (Ahmedabad) ensures quality and scalability



Multi-National Research & Development across Italy, France, Germany, Belgium, Japan & more



Sustainability Focus

ECOVADIS Silver rating demonstrates our commitment to environmental excellence and responsible manufacturing

Applications

Cables,
wires



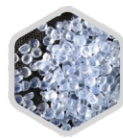
PA6, PA66 GF



HFFR
compounds



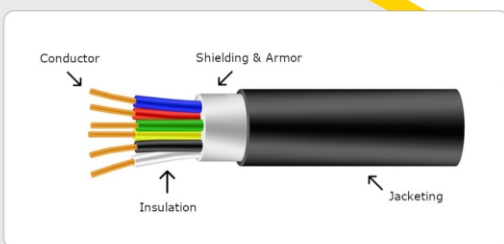
PMMA



PP, PE, PP
copolymers



Extrusion
applications



Multi-Functional Performance Benefits



A Game-Changer for Cable Compounding



**Thermal
Stabilisation**



**Universal Fire & Flame
Retardant Synergist**



**Processing
Aid**



**Environmental
Safety**



**No Migration,
No Blooming**



**Premium
Antioxidant++**



**Volume
Efficiency**



**Perfect
Synergist**

PPMT

Thermal Stability + Antioxidant+ + Fire Safety + Volume Boost + Sustainability

Environmental & Scientific Relevance



Hydrophilic/acid-sensitive retardants (phosphates, oxides, carbonates) accelerate plastic degradation in landfills, waterways, nature (≈79% waste stream).



PPMT offers a **safer, more durable alternative** with sustainability at its core.



Legislative support, voluntary compliance, and public demand will drive adoption.



Recycling and waste-disposal considerations must start at **design stage** of polymers.

PPMT Triazine Technology: A Sustainable Breakthrough



Dual Advantage

Provides fire-safety-in-use + weight reduction while ensuring safe melt processing of plastics.



End-of-Life Benefit

Enables eco-friendly disposal and efficient energy recovery from waste plastics.



Guidelines for the Future

Insights from energy extraction can reduce emissions and improve fuel efficiency (gasoline diesel-like efficacy).



Safeguards Society

Prevents open burning of plastic waste, **reducing pollution, flashover, and forest fire risks.**

Cable Compounding Applications



Performance Advantages in Cable Manufacturing

Enhanced flame retardancy in polyolefin cable compounds with superior LOI values

Synergistic compatibility with all Polymer systems

Improved electrical insulation performance

Reduced filler loading requirements compared to traditional FR systems, thus improving flexibility & mechanical properties



Compatible with PE, EVA, PA6, 66, GF, PP, PE, PMMA

Working Mechanism of PPMT



Residues of fire retardancy tests (Limiting Oxygen Index; LOI) of various polypropylene composites



polypropylene (LOI, 17.2); Fig.2b (PP14): polypropylene+ calcium carbonate + PPMTHF



(PP8)) polypropylene +calcium carbonate + kaolin + MDH + PPMT- HF (LOI, 29.7)



2d (PP20IS); polypropylene+ Ammonium Polyphosphate + PPM- HF (LOI, 30)

Contact & Touchpoints Let's Bridge the gap

Corporate Office

Chitrakoot, Opp. C. N. Vidyalaya,
B/h Shakuntal Complex, Ambawadi,
Ahmedabad, Gujarat, India – 380006

Manufacturing & R&D Facility

Plot Nos. 12 & 14, GIDC Estate,
Phase I, Vatva, Ahmedabad, Gujarat,
India – 382445

South Mumbai Office

381-A, Narottam Wadi,
Kalbadevi Road, Mumbai - 400002, India

USA Strategic Outreach

Outsourcing & Procurement
Solutions

+91 84258 38227

info@anarchem.com

www.anarchem.com



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our website