

Jyoti World Strengthens India's China+1 Proposition With 160+ Engineered Polymer Compound Grades

With 163 grades across eight polymer families, Jyoti World expands its engineered polymer compounding offering for global OEM sourcing diversification.

MUMBAI, MAHARASHTRA, INDIA, August 13, 2026 /EINPresswire.com/ -- As global manufacturers pursue China+1 and multi-source strategies to strengthen supply-chain resilience, [Jyoti World](#) Private Limited is expanding its offering of [engineered polymer compounds](#) to international OEMs and component manufacturers seeking an additional source for performance plastics from India.



Jyoti World Strengthens India's China+1 Proposition
With 160+ Engineered Polymer Compound Grades

- 163 Grades**
Across 8 Polymer Families
- Prime + Hybrid Recycled**
Material Platforms for Performance & Sustainability
- Consistent Performance Engineered for Critical Applications**
Impact, Torque & More
- From Compound to Component**
Integrated Compounding & Manufacturing Solutions

A Trusted Indian Partner for Global Sourcing Diversification

Fluid Engineering | Electrical & Electronics | Industrial | Appliances | Consumer Products

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Building Performance. Delivering Value.

Jyoti World Strengthen India's China+1 Proposition with 160+ Engineered Polymer Compound Grades

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For critical applications, material selection should prioritize consistency and performance. Where impact and torque matter, Hybrid grades can balance recycled content with predictable performance.”

Dr. Atul Raja, Vice President – Compounding, Jyoti World

Jyoti World's Custom Compounding Unit offers 163 grades across eight polymer families: PA6, PA66, ABS, Polycarbonate (PC), PBT, Polypropylene (PP), Alloys/Blends and SAN.

The portfolio combines material performance with options for different sourcing and sustainability requirements through Prime, Hybrid and selected Recycled formulations.

From China+1 to Materials Diversification:

China+1 strategies have traditionally focused on diversifying manufacturing and assembly locations. For manufacturers using engineered plastics, however, supply-chain resilience can also depend on having qualified alternative sources for the

Changing a polymer compound supplier is not simply a purchasing decision. Material formulation, reinforcement levels, additives, flame-retardant systems, colour, processing behaviour and finished-part performance can all influence qualification.

Jyoti World addresses this requirement through an integrated compounding capability focused on application-specific formulation and consistent production of engineered polymer compounds.

PA6 and PA66 form the core of the portfolio, with 41 PA6 grades and 39 PA66 grades covering unfilled and lubricated formulations, glass-fiber and mineral-filled grades, as well as flame-retardant and halogen-free flame-retardant options.

The wider portfolio includes 24 ABS grades, 23 PP grades, 16 PC grades, 9 PBT grades, 6 Alloy/Blend grades and 5 SAN grades.

Reinforcement and modification options across the portfolio include glass fiber, mineral fillers, talc and glass beads, together with performance modifications such as flame retardancy, UV stabilization, impact modification and lubrication.

Consistency Matters in Recycled-Content Applications:

As manufacturers increase their use of recycled polymers, material selection becomes



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Engineered Polymer Compounds for Performance, Precision & Sustainability

7 Engineering Polymers | 3 Variants | Compounded in-house.

Products	Un-filled	Filled			Flame Retardant		UV Stabilized	Heat Resistant	Impact Modified	Hydrolysis Resistant	Customized Colours
		Glass Fiber	Glass Beads	Mineral Fiber	Halogenated	Halogen Free					
PA 6 (N6)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PA 66 (N66)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PC	✓	✓	✓	✓	✗	✓	✓	✓	✓	✗	✓
ABS (AB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PBT (PB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Alloys (P)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
PP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MLP (MP) **	✓	✓	✓	✓	✗	✗	✗	✗	✓	✗	✓

All Engineering Polymers available in these variants.

Prime

Prime engineering resin

Hybrid

Recycled content, virgin performance

EPR-ready blend

Recycled

PIR & PCR recyclate

EPR-ready blend

**MLP (MP) is available only in Recycled Variant

Polymer Compounds



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Jyoti World Plant Top View

increasingly important for applications where performance consistency is critical.

Jyoti World offers Prime, Hybrid and Recycled material platforms, allowing customers to select a formulation based on the performance and sustainability requirements of the application.

For demanding applications where impact and torque performance are critical, Jyoti World promotes Hybrid grades that combine recycled material with virgin polymer in a controlled formulation. This approach is intended to provide a balance between recycled-content objectives and the consistency required for critical applications.

The company's approach is to evaluate material selection based on application performance, consistency and overall value, rather than focusing solely on material price or recycled content.

From Compound to Component:

A further advantage of Jyoti World's model is the integration of [polymer compounding](#) with downstream plastics manufacturing.

Alongside its Custom Compounding Unit, the company operates capabilities in injection molding, profile extrusion, plastic machining and in-house tooling, enabling material development and component manufacturing to be connected within one organization.

This integrated approach can be particularly relevant to OEMs developing new components or qualifying an additional material source, where the interaction between polymer formulation, processing conditions, tooling and component performance needs to be understood.

Jyoti World's engineered polymer portfolio is designed for applications across electrical and electronics, industrial products, appliances, consumer products and other engineered applications.

An Indian Partner for Global Sourcing Strategies:

With a plastics manufacturing legacy dating back to 1959, Jyoti World has developed an integrated manufacturing platform spanning polymer compounding and plastics processing.

The company is strengthening its engagement with international procurement, sourcing, materials engineering, product development and supply-chain teams evaluating China+1, dual-sourcing and multi-source strategies.

For manufacturers in the United States, United Kingdom and Europe, Jyoti World offers an opportunity to evaluate India as an additional source for engineered polymer compounds while maintaining access to technical development and downstream plastics manufacturing capabilities.

The company is inviting OEMs and component manufacturers to discuss application requirements, material specifications and potential qualification programmes with its Custom Compounding Unit.

About Jyoti World Private Limited:

Founded in 1959, Jyoti World Private Limited is an Indian plastics manufacturing company providing integrated polymer compounding and plastics manufacturing solutions. Its capabilities include custom polymer compounding, injection molding, profile extrusion, plastic machining, tooling and value-added manufacturing. The company combines material development with downstream plastics processing to support OEM and industrial applications.

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