

# ***SHIV SHAKTI POLYCHEM***



***Recycling Possibilities.***

***Redefining Futures.***



# ***About Us***

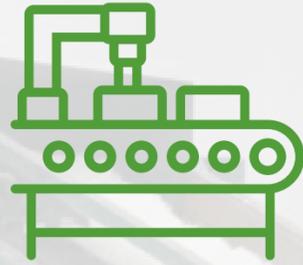
***We do more than just recycle plastic—we reimagine its future.***

***Founded in 2017 with a vision to push the boundaries of sustainability, we transform complex industrial waste like yarns, films, and fishnets into world-class polyester and nylon materials. These high-value raw materials fuel the automotive, fiber, and other global industries. Our impact is real.***

***Since 2017, we have diverted over 60,000 metric tons of waste from landfills.***

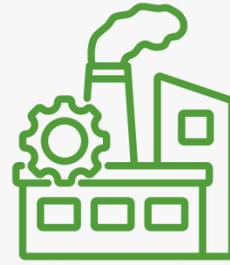
***We achieve this through zero-waste manufacturing processes, strategic partnerships, and cutting-edge technology. Shiv Shakti Polychem is more than a recycler; we are your partner in the circular economy.***

# Key Metrics & Capabilities



## 7000+ Metric Tons

Total Annual  
Recycling Capacity  
(Nylon: 2,000 TPA |  
Polyester: 5,000 TPA)



## 22,000 sq. ft. +

State-of-the-Art  
Manufacturing  
Facility



## Austrian-Engineered Technology

Ensuring Premium,  
Uniform Pellet Quality



## In-House Laboratory

For Stringent Quality  
Control & Material  
Innovation



## 25+ Years

Combined Leadership  
Experience in the  
Recycling Industry





## Vision

**To be India's most trusted force in the circular economy - creating value from waste, empowering industries worldwide, and driving a sustainable, net-zero future**



## Mission

**Our mission is to minimize landfill waste and master Extended Producer Responsibility (EPR) by transforming plastic waste into consistent, cost-effective, and high-quality recycled materials for our global partners**



# *Our Values*



## **Sustainability**

Every product reduces dependence on virgin materials



## **Trust**

Consistency and reliability in every partnership



## **Accountability**

Transparent operations with measurable impact



## **Innovation**

Leveraging technology and R&D to transform recycling

# From Waste to Value



## Final Product

Delivering high-performance recycled polymers to leading industries

## Quality Testing

Rigorous in-house lab testing of every batch to guarantee performance specifications

## Extrusion

Transforming flakes into uniform, high-grade pellets using state-of-the-art Austrian technology



## Procurement

Strategically sourcing high-quality industrial plastic and yarn waste

## Segregation

Meticulous manual and automated sorting to ensure material purity

## Shredding

Size reduction and intensive cleaning to remove all contaminants

# **OUR PRODUCTS – High-Performance Recycled Nylon-6 Pellets**



**Natural – Reprocessed PA6  
Unfilled Granules**

**Milky – Reprocessed PA6  
Unfilled Granules**

**Graphite – Reprocessed PA6  
Unfilled Granules**

# Analysis Report



Sr. No.	Properties	Unit	Test Method	Specifications	Natural	Milky	Graphite
1	Specific gravity	-	ASTM D 792	--	1.138	1.132	1.132
2	Deflection temp at 264 psi	°C	ASTM D 648	--	52	52	52
3	Tensile strength at yield	kg/cm2	ASTM D 638	--	726	684	684
4	Elongation at break	%	ASTM D 638	--	36	75	75
5	Flexural strength	kg/cm2	ASTM D 790	--	912	869	869
6	Izod impact strength	kg cm/cm of notch	ASTM D 256	--	3.94	4.38	4.38
7	Rockwell hardness	RHR	ASTM D 785	--	118	116	114
8	Melting Point	°C	DSC	215 – 225	219.22	219.02	218.92
9	Material	-	DSC	Nylon-6	Nylon-6	Nylon-6	Nylon-6
10	Metallic Impurities	-	Using Magnet	Nil	Nil	Nil	Nil
<b>Chemical Properties</b>							
1	Relative Viscosity	-	SOP:43:230	2.25-3.60	2.75	2.64	2.59
2	Moisture	%	SOP:43:188	Max 2.0	1.55	1.13	1.35
3	Ash Content	%	Residue on burning	Max 1.5	0.16	0.16	0.19
4	Water Extractable	%	SOP:43:270	Max 1.75	1.56	1.25	1.25
5	Shape	-	Visual Observation	Cylindrical / Spherical	Cylindrical	Cylindrical	Cylindrical
6	Size	mm	Vernier Caliper	Max. 3.0 mm	Industrial Standard	Industrial Standard	Industrial Standard
<b>Processing Parameters</b>							
1	Nozzle temperature	°C	-	245 (E-26)	245	245	245
2	Injection pressure	Bar	-	30 (E-26)	30	30	30
3	Shade	Under D65 light	-	Natural	Opaque Natural	Opaque White	Opaque Grey

**Note :- The values provided are indicative and may vary slightly based on testing conditions.**

# ***Our Products – Sustainable Recycled Polyester Popcorn & Pellets***



***Polyester Popcorn White***



***Polyester Popcorn Off-White***



***Polyester Popcorn Black***



***Polyester Pellets White***



***Polyester Pellets Black***

# Analysis – Polyester Popcorn & Pellets



## Applications

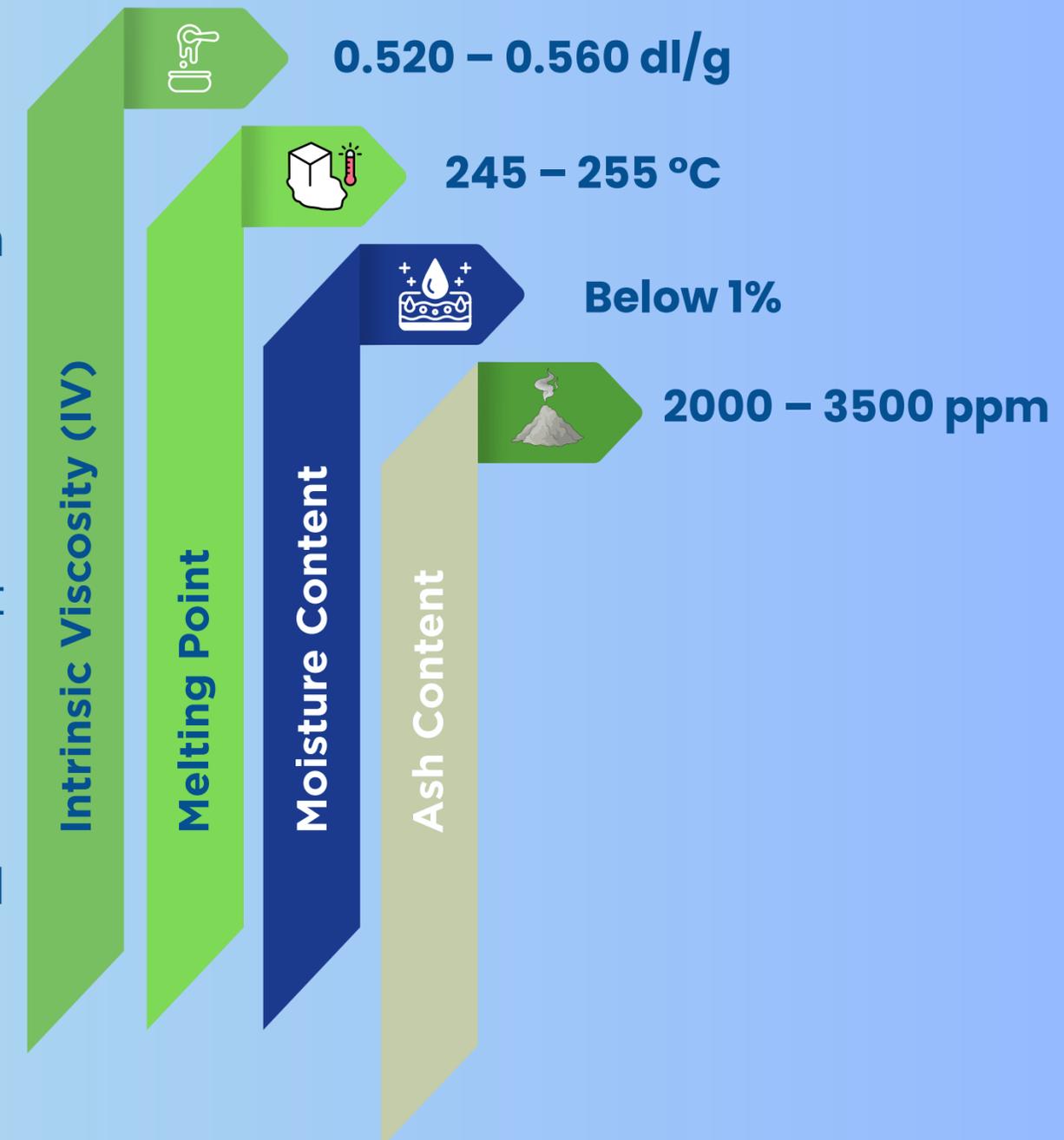
- Ideal for the Recycled Fiber Industry and rPET yarn manufacturing.
- Ensures consistent quality for fiber spinning and preform manufacturing applications.

## Packaging

- Supplied in 25 kg PP woven bags.
- Bulk or customized packaging options available as per client requirements.

## Quality Assurance

- Each batch is tested for key parameters to ensure uniformity and reliability.



**Disclaimer:** The data presented above is based on internal testing and is intended for reference only. Customers are advised to conduct their own evaluation to ensure suitability for specific applications.

# Certifications & Compliance



**ISO 9001:2015 Certified**



**Pollution Control Board  
Approved**



**GST & DISH Registered**



**Udyam MSME  
Registered**



Serving since 1973  
**SILVASSA INDUSTRIES  
ASSOCIATION**

**Member of Silvassa  
Industries Association**

# Contact US!



*Let's Build a Sustainable Future, Together.*



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*For inquiries, partnerships, or to request a sample, please get in touch with our team.*