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## RECYCLED PLASTIC POLYMERS PRICING METHODOLOGY



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### List of Contributors

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## Introduction

We, as humans have traditionally been involved in use and throw model. We use a product and when its use is over, discard it. Tons of waste is thrown in landfill sites where it degrades the eco-system around it. Burning and burying waste have equally or may be even more harmful effects. Years of such practices have contributed towards significant climate change. But now we need to re-think our relationship with waste, more specifically with Plastic Waste.

Plastic is a petroleum product which has a limited availability. Plastic is highly versatile material and its huge consumption is the proof of its competitive edge over other alternatives. It's more economic, easy to manufacture into products, is light weight and more durable.

We understand that after continuous heavy consumption of plastic, we may not be able to eliminate it. However, we can pledge to align our actions with Paris Agreement and transform our production and consumption pattern. We need to promote circular economy and avoid drilling for more fossil fuel.

Imagine this, after you buy a product and use it, you hand it over to a Material Recovery Facility. Here all dry wastes are sorting into different categories based on its recyclability and other properties. Then this waste is recycled, in case of plastic, made into Granules. These Granules is again used by manufacturers to manufacture new products which we buy and use. This cycle repeats again and again, this is Circular economy. Through this, you are minimising the use of virgin material, minimising the quantity of waste entering the landfill and lower your carbon footprint. This is sustainable development and this is the future.

Currently in India, there are many players engaged in this field of recycling and are making granules of recycled plastic. But the manufacturers are not much aware of the rates and material availability of these granules. Thus, Nepra Resource Management Private Limited bring to you the weekly rates of these recycled granules through Polymerupdate. This methodology provides insights on how the weekly rates are procured and present. This is our step towards promoting circular economy.

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**Polymers Covered**

We shall be covering following polymers granules in our weekly report

<b>Polymer</b>	<b>Grade</b>	<b>Variety</b>
LDPE	Injection Moulding	Natural
		Colour
		Black
	Extrusion	Natural
		Colour
		Black
PP	Injection Moulding	Natural
		White
		Colour
		Black
	Extrusion	Natural
		White
		Colour
		Black
	Compound	Mineral filled - 20%
		Glass filled - 20%
HDPE	Injection Moulding	Natural
		White
		Colour
		Black
	Blow Moulding	Natural
		White
		Colour
		Black

## General Information

The market information and rates provided are collected from various stakeholders in good faith as true. The rates mentioned in weekly report is true to the best of our knowledge.

The market rates provided are an average and the buyer/ purchaser is free to negotiate with the company/ person engaged in sales of the granules.

### Assumptions

- The rates defined as considering one truck load (approx. 18 metric tons or 18,000 kilo grams).
- The rates are ex-factory rates.
- It does not include loading and transportation cost.

### Unit used

The rates published shall be in Indian Rupees per kilo gram (INR/kg).

## **Methodology\*\***

### **Publishing Information**

The rates shall be published on weekly basis on every Thursday on website <https://www.polymerupdate.com/prices/recycled/polymers/mumbai>. The report shall be made on Thursday morning and shall cover rates collected till Wednesday evening (1800 hours).

In case any holiday is coinciding with the report publishing day, the rates shall be published before to the start of holidays and the rates covered will be one day prior to the publishing day.

### **Collection of Market Information**

The market information is collected from various wide range of stakeholders based on interviews and other means of communication.

All the market rate assessors are trained in gathering market information and are required to follow this methodology.

### **Stakeholders**

The wide range of stakeholders included in data collection consist of Recyclers, Traders, Brokers, Purchasing Company and Industry experts.

Data from other sources is also welcomed as long as it is provided in good faith as true.

While collecting market information, it is ensured that the stakeholder is active in the market.

### **Specifications**

The market rates of granules with similar Technical Data Sheet specification shall be clubbed together.

### **Mid-Point**

The market rates are mid-point to provide a fair representation of the material.

### **Representation of Market Rates**

The market rates will be presented in form of line chart along with historic data as per its availability. The X Axis is defined as date when market rate is published and Y axis is

defined as the market rate in INR/kg (Indian Rupees per kilo gram). The general rule of line chart shall be applicable here as well. Each Granule shall have different line chart to show its market rate and historic trend.

### **Market Verification**

We shall make best efforts to confirm bids and offers with concern stakeholders and cross-check all market data received from purchase or sales stakeholder.

### **Exclusion of Data**

In assessing the market rates, we consider only arm's length deals between non-affiliated parties. We also exclude data where we have reasonable doubt over the collected market rate or it is believed that the market rate shared is not true.

### **Minimum Threshold of Data**

Since this sector is still infancy, the minimum threshold of data to assess and present in weekly report is not defined.

### **Exercise of Judgement**

We may exercise judgement where:

- market information about the market rates is not available,
- lack of sufficient data from various stakeholders,
- the markets rates of various stakeholders have wide price gap.

### **Changes in Methodology**

This is the first version of methodology and going ahead we shall take feedback from different stakeholders, industry experts and public and we might come across many situations based on which we may modify this documents to bring more transparency and trust in the sector. The draft documents shall be made public for comments with a maximum notice period of one month.

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*Note\*\*: The Pricing Methodology adapted is for base of calculation purpose only, the price may vary due to external factors which directly have impact on pricing, so the time factor is crucial in this and thus before deriving on any conclusion one may need to inspect the current market prevailing condition and other external factors related pricing consideration. The Company held no responsibility if there is any variation in the price point in future.*