

IMPERA™ P1503 Hydrocarbon Resin



Synthomer IMPERA™ P1503 is an aromatic resin. IMPERA P1503 can improve tire performance attributes including rolling resistance, wet grip, and abrasion in tread compounds. Additional performance enhancements can be achieved depending on rubber compound formulation.

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method ¹
Ring and Ball Softening Point	100	°C	ASTM E 28
Color, Gardner	0.3		ASTM D 6166, 50% in toluene, 1 cm cell
Density	1.06	g/mL	ASTM D 792
Glass transition temperature, T _g	54	°C	midpoint, DSC, 20°C/minute

¹ internal method based upon the specified norm

Applications

Tire components

Storage and Shelf Life

Due to the thermoplastic behavior, pastillated and flaked resins may fuse, block or lump. This can be accelerated under any of the following conditions: 1) above ambient temperature, 2) prolonged storage, 3) pressure, e.g., stacking pallets, or a combination of these conditions. This is particularly applicable for low softening point resin grades.

In order to maintain the flake or pastille shape, we therefore recommend storing the material in a temperature-controlled area, be careful with stacking material or applying pressure and preventing prolonged storage. Direct sunlight exposure should be avoided. Synthomer recommends storage temperatures below 30°C.

It should be noted that lumping does not have a negative impact on the product specifications. Due to the nature of the product, claims regarding lumping cannot be accepted.

Resins are prone to gradual oxidation, some more so than others. This could result in darkening and/or it could have an adverse effect on the solubility of the resin in organic solvents or on its compatibility with polymers. Accordingly, it is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first.

The shelf life of IMPERA™ P1503 is 36 months from the date of manufacture, based on the recommended handling and storage conditions. Once the material has surpassed shelf life, please contact us if you would like to receive our suggestions for material re-verification, based on key product characteristics.

Handling Precautions

For detailed information on toxicological properties and handling precautions please refer to the current Safety Data Sheet. This information sheet can be requested from the nearest Synthomer office and should be consulted before handling this product.

Comments

Properties reported here are typical of average lots. Synthomer makes no representation that the material in any particular shipment will conform exactly to the values given.