

Technical Data Sheet

PP HOMOPOLYMER RG 1101 R

Polypropylene Homo polymer

Polypropylene Homopolymer (PPH) is the most widely utilized. PPH offers a high strength to weight ratio and is stiffer and stronger than copolymer, this combined with good chemical resistance and weldability allows this material to be used in many corrosion resistant structures. Process: Polypropylene Homopolymer is prepared by Gas Phase and Bulk phase. Polypropylene Homo Polymer (Homo PP) is a colorless solid in granular form with no odor. It is non-reactive with environment. Polymerization using Propylene as feed stock & Heterogeneous Catalyst Polypropylene homopolymers are thermoplastic resins produced through the polymerization of propylene with Ziegler-Natta catalysts. The homopolymers can be used in different processing technologies, such as injection molding, blow molding, film, fiber, sheet extrusion and thermoforming. Homopolymers providing a broad set of properties to meet the market needs in packaging, household goods, textiles, film, healthcare, and, pipe as well as applications in the automotive and electrical industries.

Applications:

BCF/CF, POY yarns, Nonwovens, Injection moulding of articles

Properties	Value	Units	Test Method
MFR (230° C/ 2.16 Kg)	20	gr/10min	ASTM D1238/L
Tensile Modulus of Elasticity (1mm/min)	1500	MPa	ASTM D638
Tensile Strength at Yield (50 mm/min)	34	MPa	ASTM D638
Elongation at Yield(50 mm/min)	8	%	ASTM D638
Notched Charpy Impact at 23°	2.5	KJ/m2	ISO 179/ 1eA
Notched Charpy Impact at 30°	1.5	KJ/m2	ISO 179/ 1eA
Vicat Softening Point, 10N	154	°C	ASTM D1525
Ball indentation hardness	78	MPa	ISO 2039-1
HDT (0.46 N/mm2)	85	°C	ASTM D648
Melting Point , DSC	163	°C	ASTM D3417
Density	0.91	gr/cm3	ASTM D792