

# TECHNICAL DATA SHEET

PCR High Density Polyethylene (HDPE)

**BP2120 - Bluish Grey**



BP2120 is a PCR High Density Polyethylene (HDPE) grade suitable for general purpose blow moulding and extrusion application. Available in standard Bluish Grey colour.

Material Properties	Value	Unit	Test Standard
Melt Flow Rate, (190 °C/2.16 kg)	0.3 - 0.7	g/10min	ASTM D 1238
Density	0.88-0.98	g/cc	ASTM D 792
Moisture	<0.5	%	ASTM D 6980
Tensile Strength at Yield	19-26	MPa	ASTM D 638
Elongation at Break	100-500	%	ASTM D 638
Tensile Modulus	300-800	MPa	ASTM D 638
Flexural Modulus	700-1200	MPa	ASTM D 790
Flexural Strength	19-26	MPa	ASTM D 790
Izod impact strength	min 60	J/m	ASTM D 256
Environmental Stress Crack Resistance	40-600+	Hrs	ASTM D 1693
PP Content	<7	%	ASTM D 5576
Ash Content	<2	%	ASTM D 5630
PCR Content	>95	%	
Colour Value (Reference value)	33.7	L*	
	-8.42	a*	
	-16.75	b*	
	<5	ΔE	

\*Typical Values not to be construed as specification limits. Values may change without notice.

\*Mechanical properties tested on compression moulded specimens after they are conditioned as per ASTM D 618.

#### COMPLIANCE:

US TPCH (CONEG)- 94/62/EC1.

REACH/SVHC Compliant - (EC) No 1907/2006 Article 33(1).

#### APPLICATION:

Blow moulding, Extrusion, Blown Film.

Characteristics include, stiffness, toughness.

#### PACKAGING INFORMATION:

The material is packed and available in raffia bags with net content 25.00 kg only. The raffia bags use conforms to the minimum strength requirement of BIS, however customer shall take due care while handling the bags. Prolonged exposure to the sun may deteriorate the bags performance and cause spillage and wastages. Banyan Nation doesn't warranty loss of material due to poor material handling practices.

#### STORAGE AND HANDLING:

The storage location should be dry, dust free and the storage temperature should not exceed 50°C. Non- compliance to these precautionary measures can lead to degradation of the product causing colour change, odour, and inadequate product performance. It is advised to process material within 12 month post-delivery.

**DISCLAIMER:** The data is provided with good faith and represent typical properties based on our current knowledge. COA shall be provided for each lot.

It is the buyer's responsibility to determine the suitability of Banyan PCR grade for the intended application. Our product is deemed to be human contact safe.

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To find out more, visit [www.banyannation.com](http://www.banyannation.com) or contact

**BANYAN SUSTAINABLE WASTE MANAGEMENT**

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