



SHIV SHAKTI POLYCHEM

Recycled Nylon-6 (PA6) Granules – Technical Data Sheet

Recycling Possibilities. Redefining Futures.

Mechanical Properties

Property	Unit	Method	Natural	Milky	Graphite	Black
Specific Gravity	-	ASTM D792	1.138	1.132	1.132	1.134
Tensile Strength	kg/cm ²	ASTM D638	726	684	684	678
Elongation	%	ASTM D638	36	75	75	70
Flexural Strength	kg/cm ²	ASTM D790	912	869	869	860
Izod Impact	kg-cm/cm	ASTM D256	3.94	4.38	4.38	4.20
Rockwell Hardness	RHR	ASTM D785	118	116	114	113
Melting Point	°C	DSC	219.22	219.02	218.92	218.80

Chemical Properties

Property	Unit	Method	Natural	Milky	Graphite	Black
Relative Viscosity	-	SOP 43:230	2.75	2.64	2.59	2.55
Moisture	%	SOP 43:188	1.55	1.13	1.35	1.40
Ash Content	%	Burn residue	0.16	0.16	0.19	0.22
Water Extractable	%	SOP 43:270	1.56	1.25	1.25	1.30

Processing Parameters

Parameter	Unit	Natural	Milky	Graphite	Black
Nozzle Temperature	°C	245	245	245	245
Injection Pressure	Bar	30	30	30	30
Shade (D65)	-	Dull	Pale & dull	Muddy dull	Deep black

Disclaimer: The above data are typical values obtained under laboratory conditions and are not intended for specification purposes. Users must evaluate material suitability for their own application.

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