

R5504



High Density Polyethylene

Monofilament & Raffia

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Product Description:

HDPE R5504 is a natural colored grade produced with the latest Mitsui CX slurry polymerization

Technology exhibiting following features:

- ✓ Good Mechanical Properties
- ✓ Low water Carry-over
- ✓ Excellent processability

HDPE R5504 is recommended for following

applications:

- ✓ Fishing Nets, Ropes
- ✓ Insect Screens & Mosquito Nets
- ✓ Cloth Yarn, Packing Straps
- ✓ Woven Sacks for Fertilizer & Tarpaulin

Typical Properties:

Sr. No.	Test Method	Units	Values*	
Physical Properties				
1	Melt Flow Index (190°C & 2.16 kg)	ASTM D1238	g / 10 min	0.40
2	Density (at 23 °C)	ASTM D1505	gm/cm ³	0.955
Mechanical Properties				
3	Tensile Strength @ Yield	ASTM D638	MPa	26
4	Tensile Strength @ Break	ASTM D638	MPa	>17
5	Elongation @ Break	ASTM D638	%	>500
6	Charpy Impact Strength	ISO 179-1	KJ/m ²	12
7	Notched Izod Impact Strength (at 23 °C)	ASTM D256A	J/m	>250
8	Flexural Modulus	ASTM D790A	MPa	850
9	Hardness	ASTM D2240	Shore D	64
10	ESCR (F50, 10% Igepal soln. v/v)	ASTM D1693B	Hrs	150
Thermal Properties				
11	Vicat Softening Point (10N)	ASTM D1525	°C	124
** ** Mechanical Properties tested on Compression Molded type IV Specimen.				
* Typical Values and not to be taken as specification limits, values may change without any prior notice.				

Recommended Processing Temperature: 200 – 240 °C

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