

HD5800S

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD5800S is high density polyethylene resin which offers excellent mechanical strength performance. InnoPlus HD5800S is recommended for monofilament or yarn applications which require high tenacity property.

Typical Applications : Rope, Fishing net, Agricultural net, Tarpaulin, Woven sack.

Typical Properties :

Properties	HD5800S	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	0.3	g/10 min	ASTM D1238
Density	0.954	g/cm ³	ASTM D1505
Vicat Softening Point	127	°C	ASTM D1525
Melting Temperature	136	°C	ASTM D3418

Mechanical Properties (compression specimens)			
Tensile Strength at Yield	290	kg/cm ²	ASTM D638
Tensile Strength at Break	480	kg/cm ²	ASTM D638
Elongation at Break	>1,000	%	ASTM D638
Flexural Modulus	11,000	kg/cm ²	ASTM D790
Notched Izod Impact Strength	79 (NB)*	kg.cm/cm	ASTM D256

* NB = Non Break

Recommendation :

Extruder temperature : 200 - 280 °C Stretching temperature : 97 - 100 °C
 Die temperature : 290 - 300 °C Stretching ratio : 8 - 10 °C

FDA Statement :

Food and Drug Administration US FDA 21 CFR 177.1520 and Commission Regulation (EU) 10/2011. More compliance regulations and standards that related to the product shall be exhibited in Product Regulatory Certificate (PRC) document.