

# HIVOREX 5000S

High Density Polyethylene  
Lotte Chemical Corporation

Message:

5000S is manufactured to be processed in flat yarn for tarpaulin by CSTR Slurry process technology.  
5000S is ideally suited for use in monofilament application.  
5000S offers good stretching, spinning, high strength property and melting stability.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	High Melt Stability		
	High Strength		
Uses	BCF Yarn		
	Monofilaments		
	Netting		
	Rope		
RoHS Compliance	RoHS Compliant		
Processing Method	Fiber (Spinning) Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.95	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	31.4	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus	981	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Vicat Softening Temperature	125	°C	ASTM D1525

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