

HIVOREX 5100ST

High Density Polyethylene

Lotte Chemical Corporation

Technical Data

Product Description

5000ST is manufactured to be processed in flat yarn for tarpaulin by CSTR Slurry process technology.
5000ST is manufactured by Bi-modal design of molecular composition
5000ST offers good stretching, spinning, high strength property and melting stability.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• Lotte Chemical Corporation		
Availability	• Asia Pacific	• Europe	• North America
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Additive	• Antioxidant		
Features	• Antioxidant	• High Melt Stability	• High Strength
Uses	• BCF Yarn		
Processing Method	• Fiber (Spinning) Extrusion		

Physical	Nominal Value Unit	Test Method
Density	0.954 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Break)	29.4 MPa	ASTM D638
Tensile Elongation (Break)	> 500 %	ASTM D638
Flexural Modulus	883 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	170 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	50	ASTM D785
Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	124 °C	ASTM D1525

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.