

HD 03594 PE

High-Density Polyethylene

PRODUCT DESCRIPTION

HD 03594 PE is PE100 high-density bimodal black copolymer of ethylene with hexene-1. The product is characterized by a balanced combination of physical and mechanical properties and good processability. Excellent UV resistance and high polymer rigidity provide reliability and long pipe life.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	CONDITIONS / METHOD
Rheology - Melt Flow Rate	0.3	g/10 min	190 °C/5 kg ISO 1133
Physical - Density	0.959	g/cm ³	ISO 1183
Physical - Volatile Content	<350	mg/kg	EN 12099
Mechanical - Tensile Stress at Yield	21	MPa	ISO 527
Mechanical - Tensile Strength at Break	34	MPa	ISO 527
Mechanical - Elongation at Break	>800	%	ISO 527
Mechanical - Flexural Modulus	>1000	MPa	ISO 178
Mechanical - Izod Impact Strength	18	kJ/m ²	-20 °C ASTM D256
Thermal - Vicat Softening Point	126	°C	10 N ISO 306
Thermal - OIT	>45	min	210 °C ISO 11357
Pigmentation - Carbon Black Content	2.0-2.5	%	ASTM D1603
Pigmentation - Carbon Black Dispersion	≤3 Grade / ≤B Type	-	ISO 18553

NOTES / TEST CONDITIONS

* The values given are typical values measured on the product. These values should not be considered as specification.

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TYPICAL APPLICATIONS

HD 03594 PE is classified PE 100 in accordance with ISO 12162 based on ISO 9080 analysis. The grade is designed for extrusion of various types of pipes and pipe products.

REACH STATEMENT

Polymers are exempt of REACH registration. However, their raw materials, meaning monomers and relevant additives, have been registered. PJSC «Sibur Holding» (and its subsidiaries) is committed to fully respect REACH legislation and to use only REACH compliant raw materials.

SAFETY

See MSDS

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