

Producer: Lukoil /Ukraine

F3802B (PE 80, BLACK)

Production method: Gas phase polymerization accordingly to Unipol technology.

Application:

Production of pressure pipes and fittings, pipes and fittings for gas pipelines etc. Polyethylene of grade **F3802B** corresponds to class PE 80 accordingly to the methodology of ISO 9080:2003.

Method of processing: extrusion

DESCRIPTION OF PROPERTIES	STANDART	TEST METHOD	
		GOST	ASTM D
Density at 23°C, g/cm ³	0,945-0,951	§6 of GOST 15169 or ISO 1183	ASTM D 1505
Melt flow Index, g/10min, at 190°C/5.0 kg	0.70-1.10	GOST 11645	ASTM D 1238
Melt Flow Index Spread within a lot, max, %	±10	§5.10 of GOST 16338 or ISO 1183	ASTM D 1238
Corrected ratio PTR ₂ 1 ₆ / PTR ₂ ,16	80-110	§5.6 of TU 2211-007-50236110-2003 with amendment 1	-
Limit of flow index at elongation, Mpa, minimum	17.0	GOST 11262	ASTM S 638
Ultimate Elongation, minimum	600	GOST 11262	ASTM S 638
Lower confidence limit σ_{LCL} , MPa, minimum	8.0	ISO 9080	-
Resistance to Constant Internal Pressure at 20°C, I Stress onto Pipe Wall min. 0.5 MPa 11.0 MPa	475 75	GOST 24157	-
Carbon Black Content, %	2.0-2.5	§ 5.17 GOST 16338 or ISO 6964	ASTM D 1603
Thermal stability at 210°Ñ, minimum	20	§ 8.9 GOST P 50838 (corresponds to ISO TP 10837	-
Distribution of carbon black, type	I-II	§ 5.18 of GOST 16338	-
Mass part of the volatile matter, mg/kg, maximum	350	GOST 26359 (corresponds to ISO 4437, appendix A)	-
Resistance to Constant Internal Pressure at Initial Stress onto Pipe Wall 4.60 MPa, at 80°C, min.	165	§ 8.11 of GOST P 50838	-
Resistance to gas components, h., minimum	20	§ 8.11 of GOST P 50838	-

Packing and transport:

Packed in 25 kg polyethylene or polypropylene bags, transported by railway or motor transport.