

NEFTEKHIM PE 6949C

High Density Polyethylene
Nizhnekamskneftekhim Inc.

Message:

Product obtained by gas phase polymerization of ethylene in presence of complex metalorganic catalysts.
Stabilization recipe: antacid, antioxidant, thermostabilizer, processing aid, dispersing aid, carbon black.
Application: tubes and fittings for gas distribution network, and also pressure pipes and fittings for cold potable water supply systems.
Specification: TU 2211-150-05766801-2009

General Information			
Additive	Processing aid		
	Antioxidation		
	heat stabilizer		
	acid neutralizer		
	Carbon black		
Features	Antioxidation		
	Dispersible		
	Workability, good		
	acid resistance		
	Thermal Stability		
Uses	Piping system		
	Pipe fittings		
	Accessories		
Agency Ratings	PPI PE-80		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.10 - 0.40	g/10 min	ASTM D1238
Melt Flow Ratio - MFR 21.6 kg/MFR 5.0 kg			ASTM D1238
Carbon Black Content	2.0 - 2.5	%	ISO 6964
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	> 21.0	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Additional Information			
MFR spread within the lot, max: 10%Type of carbon distribution: A1, A2, A3, BMass fraction of volatiles, max: 350 mg/kgThermal Stability at 200°C, min, not less than: 20Resistance to slow crack propagation at 80°V and initial stress at the pipe wall 4.6 MPa, on pipes d 110 mm with SDR 11 or d 160 mm with SDR 11, min: 165 hrResistance to gas components at 80°C and initial stress at pipe wall 2 MPa, on pipes d 32 mm with SDR 11, min: 20 hrLower confidence limit of long-term strength, GOST ISO 12162: >10 MPa			

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