

Indothene HD 46GP009UV

High Density Polyethylene

Reliance Industries Limited

Message:

Indothene-HD grade 46GP009UV is a natural pipe extrusion grade of HDPE, produced by Hostalen Stirred Tank Heavy Diluent (STHD) Slurry process at IPCL's Gandhar Complex. It possesses bimodal molecular weight distribution, which improves processability and mechanical properties of pipe. 46GP009UV is UV stabilized grade & is suitable for producing Cable ducts for Optical fibers and other general-purpose application. The grade is designed to sustain outdoor exposure of 12 months. Designation of 46GP009UV as per IS 7328-1992 is PE EL C45 T012.

FOOD CONTACT APPLICATIONS:

This grade meets the requirements of Indian Standard IS: 10146 on "Polyethylene for its safe use in contact with foodstuffs, pharmaceutical and drinking water". The level of antioxidant in 46GP009UV is not more than 0.3% by mass of the resin. The antioxidants used in the grade are covered in IS: 10141.

General Information			
Additive	UV stabilizer		
Features	Good UV resistance		
	Compliance of Food Exposure		
Uses	Optical fiber cable		
	General		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	23	g/10 min	ASTM D1238
190°C/5.0 kg	0.90	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10°C, 10% Igepal, injection molding, F50)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	23.5	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, 3.20mm, injection molding	11	%	ASTM D638
Fracture, 3.20mm, injection molding	350	%	ASTM D638
Additional Information			
OIT, ASTM D3895, Cu pan, 200°C: >30 minTensile Elongation at Break, ASTM D 638, Type I, 3.2 mm: >350%			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190	°C	
Cylinder Zone 2 Temp.	200	°C	
Cylinder Zone 3 Temp.	210	°C	
Cylinder Zone 4 Temp.	220	°C	

Die Temperature	218	°C
NOTE		
1.	Type 1	
2.	Type 1	

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