SNOLEN® EP 0.26/51N
SNOLEN® EP 0.26/51Y

CHARACTERISTIC PROPERTIES

High density polyethylene (HDPE).
Extra-high environmental stress crack resistance. High impact strength.
High hydrostatic strength for PE 100 grades. UV protection not required.

MAJOR APPLICATIONS

PE 100 extrusion pipe grades. Process pipes (incl. pressure pipes). Gas pipes. Potable water pipes. Wear plates. Fittings.

PROPERTIES

property	method	unit	value
Density (@ 23±0.5)°C	ISO 1183	g/cm^3	0.947-0.951
Melt Index @ 190°C / 5.0 kg	ISO 1133	g/10 min	0.20-0.26
Melt Index @ 190°C / 21.6 kg	ISO 1133	g/10 min	5.2-7.2
Melt Index Ratio $MI_{21.6}/MI_5$	STO 00203521-001-2009		25-31
Flexural Modulus (23°C, v = 1 mm/min, Secant)	ISO 527	MPa	850
Tensile Stress @ Yield (50 mm/min)	ISO 527	MPa	23
Tensile Strength @ Break (50 mm/min)	ISO 527	MPa	36
Elongation @ Yield (50 mm/min)	ISO 527	%	10
Elongation @ Break (50 mm/min)	ISO 527	%	> 1000
Vicat Softening Point (5 kg, 50°C/h)	ISO 306	°C	74
Brittleness Temperature	ASTM D746-72	°C	<-80
Hardness, Shore (D)	ISO 868		62
Environmental Stress Cracking Resistance (80°C, 2% Arcopal)	ISO CD 16770	h	400(@ 4.0MPa)
Charpy Impact Strength (23°C)	ISO 179-1	kJ/m^2	25
APPLICATION PROPERTIES			
Resistance to Rapid Crack Propagation (RCP) – Test S4	ISO DIS 13477	Bar	> 20
Resistance to Crack Propagation, Slow Crack Growth – Notch Test (SCG)	ISO DIS 13479	h	> 1000(@ 4.6MPa)
Resistance to Internal Pressure (Hydrostatic Strength), (80°C; 4.6 Mpa)	ISO 1167	h	> 15000

PROCESSING

Recommended melt temperature: 180–220°C.