

High Density Polyethylene



0.949

0.25

SP 4808

				
СНА	RACT	ERIS	STIC :	

- Natural pellet
- High tensile properties
- Low sagging grade
- Long term hydrostatic strength
- Excellent stress cracking resistance

APPLICATION :

- PE-100 certified (MRS=10 MPa)
- σ_{LPL} @ 50 years = 10.78 MPa
- Pressure pipes
- Water distribution pipes (Potable water certified)
- Subduct conduit, Sewerage & Industrial pipes

Density

Melt Index (5.0 kg)

Physical Properties	Test Method*	Unit	Value
Density	ASTM D 1505	g/cm ³	0.949
MI (190 °C/2.16 kg)	ASTM D 1238	g/10 min.	0.06
MI (190 °C/5.0 kg)	ASTM D 1238	g/10 min.	0.25
MI (190 °C/21.6 kg)	ASTM D 1238	g/10 min.	9.0
Brittleness temperature	ASTM D 746	°C	< - 70
ESCR [10% Igepal, F ₅₀]	ASTM D 1693	Hrs	> 1,000
Tensile strength @ yield	ASTM D 638	MPa	30
Tensile strength @ break	ASTM D 638	MPa	50
Ultimate elongation	ASTM D 638	%	> 700
Tensile impact strength	ASTM D 1822	kJ/m ²	550
Flexural modulus	ASTM D 790	MPa	1,300
Oxidative-Induction Time @ 200 ⁰ C	ASTM D3895	min	> 80
Viscosity @ 0.1sec ⁻¹ , 190 ⁰ C	Torque Rheometer	Pa.s	>100,000

ISO 1167	hrs	> 100
ISO 1167	hrs	> 165
ISO 1167	Hrs	> 1,000
ISO 13477	Bar	> 12
ISO 13479	hrs	> 1,058
ISO 2505-1 & 2	%	0.63
	ISO 1167 ISO 1167 ISO 1167 ISO 13477 ISO 13479 ISO 2505-1 & 2	ISO 1167 hrs ISO 1167 hrs ISO 1167 Hrs ISO 13477 Bar ISO 13479 hrs ISO 2505-1 & 2 %

* Polyethylene tested per ASTM D 1928

** PE-100 , S-5, SDR-11, PN-16, OD-32mm

*** PE-100, S-5, SDR-11, PN-16, OD-110mm

Recommended Processing Conditions:

Melt Temperature 190 – 220 °C

This material complies with recommendations & statutory regulations in the USA, Japan and most European countries regarding packaging materials intended to come in contact with foodstuff, since it is used unmodified.

The nominal properties reported herein are typical of the product of CAPC but do not reflect normal testing variance and therefore should not to be construed as specifications.

CAPC reserves the right to make any improvement or amendments to the composition of any grade or product without alteration to the product code.

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Conversion :

This technical datasheet is effective as from January 2011 and supersedes all previously published data.

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 $1 \text{ MPa} = 10.2 \text{ kg/cm}^2 \text{ (bar)}$

 $1 \text{ kJ/m2} = 0.01 \text{ kgf.cm/mm}^2$