

Asrene® SP 4808

High Density Polyethylene
Chandra Asri Petrochemical

Message:

Asrene® SP 4808 is a High Density Polyethylene product. It can be processed by extrusion and is available in Asia Pacific, Europe, or North America.
Typical application: Plumbing/Piping/Potable Water.
Characteristics include:
High ESCR (Stress Crack Resistant)
High Strength

General Information			
Features	High ESCR (Stress Crack Resist.)		
	High Tensile Strength		
Uses	Piping		
Agency Ratings	PPI PE-100		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.060	g/10 min	
190°C/21.6 kg	9.0	g/10 min	
190°C/5.0 kg	0.25	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal, F50)	> 1000	hr	ASTM D1693
Viscosity (190°C) ¹	> 100000000	mPa · s	
Slow Crack Growth Resistance - Notch Test (80°C) ²	> 1058	hr	
Oxidation Induction Time (200°C)	> 80	min	ASTM D3895
Hydrostatic Resistance ³			ISO 1167
12.4 MPa : 20°C	> 4.2	day	
5.0 MPa : 80°C	> 41.7	day	
5.5 MPa : 80°C	> 6.9	day	
Longitudinal Reversion ⁴	0.63	%	ISO 2505-1, -2
Rapid Crack Propagation - S4 Test (0°C) ⁵	> 1.20	MPa	ISO 13477
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	30.0	MPa	
Break	50.0	MPa	
Tensile Elongation (Break)	> 700	%	ASTM D638

Flexural Modulus	1300	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	550	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	0.1 sec ⁻¹ , Torque Rheometer		
2.	9.2 bar, PE-100, S-5, SDR-11, PN-16, OD-110mm		
3.	PE-100, S-5, SDR-11, PN-16, OD-32mm		
4.	PE-100, S-5, SDR-11, PN-16, OD-110mm		
5.	PE-100, S-5, SDR-11, PN-16, OD-110mm		

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