

CERTENE™ HHP-849

High Density Polyethylene
Muehlstein

Message:

HHP-849 is a certified prime, natural color base hexene-copolymer grade, designed for EXTRUSION of PIPE. HHP-849 meets PE-3408 non-pressure and pressure pipe service requirements from 1 to 64 inch sized diameters and features good long-term hoop strength performance for applications including municipal potable water pipe, fuel gas pipe, re-lining pipe, industrial and mining pipe, storm and sanitary pipe. HHP-849 processing temperature is 365° to 390°F (185° to 199°C). HHP-849 meets all requirements of ASTM-D4976 - PE 235 & NSF Standard 14/61.

General Information			
Features	Copolymer		
	hexene comonomer		
	Good strength		
Uses	Industrial application		
	Piping system		
	Mining application		
	Fuel line		
	Bathroom products		
	Potable water application		
Agency Ratings	ASTM D 4976-PE235		
	NSF 14		
	NSF 61		
	PPI PE-3408		
Appearance	Natural color		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
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	0.080	g/10 min	ASTM D1238
190°C/21.6 kg	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (100°C, 1.75mm, 100% Igepal, molding, F50)	> 5000	hr	ASTM D1693C
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Compression Molded)	23.0	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	850	%	ASTM D638

Flexural Modulus - 2% Secant ⁴ (Compression Molded)	850	MPa	ASTM D790
Slow crack propagation PENT	> 100	hr	ASTM F1473
Unit classification	PE 345464A		ASTM D3350
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -100	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Additional Information	Nominal Value		Test Method
Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.			
Extrusion	Nominal Value	Unit	
Melt Temperature	185 - 199	°C	
NOTE			
1.	Notched Bent Strip		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		

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