

NOVAPOL® HE-Y449-AC

High Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL® HE-Y449-AC is a High Density Polyethylene material. It is available in North America for extrusion.

Important attributes of NOVAPOL® HE-Y449-AC are:

Antioxidant

Chemical Resistant

Food Contact Acceptable

Good Processability

Good Toughness

Typical applications include:

Electrical/Electronic Applications

Food Contact Applications

Hose/Tubing

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Processability		
	Good Toughness		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	Medium Molecular Weight		
	Conduit		
	Tubing		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.949	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	> 1000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	24.0	MPa	ASTM D638
Tensile Elongation ² (Break)	650	%	ASTM D638

Flexural Modulus - Tangent	1140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Peak Melting Temperature	130	°C	ASTM D3417
Oxidation Induction Time	10	min	ASTM D3895
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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Recommended distributors for this material

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