ADVANCENE™ EM-4925-AAH

High Density Polyethylene

ETHYDCO

Message:

ADVANCENE™ EM-4925-AAH HDPE Resin is specifically designed for use in either intermittent or continuous blow molding equipment to produce containers up to 30 liters in size - applications that require the combination of outstanding environmental stress crack resistance (ESCR) and high impact strength.
ADVANCENE™ EM-4925-AAH HDPE Resin is also considered a multipurpose blow molding resin designed for the high speed production of blow molded containers used for packaging household industrial chemicals (e.g. detergents, bleach, fabric softeners), toiletries and cosmetics (e.g., shampoos, creams, lotions, etc.) health and medical aids. In addition, it can be blow molded into other thin-walled parts and houseware items, and can also be extruded into profiles or sheets.
Main Characteristics
Outstanding environmental stress crack resistance.
High impact strength.
Good extrusion characteristics.

General Information	
Features	High ESCR (Stress Cracking Resistance) High density Impact resistance, high
Uses	Cosmetic Packaging Packaging Thin wall parts Household goods Sheet Container Profile Medical packaging
Processing Method	Blow molding Sheet extrusion molding Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.949	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
190°C/2.16 kg	0.25	g/10 min	ASTM D1238, ISO 1133
190°C/21.6 kg	25	g/10 min	ASTM D1238, ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	180	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength			ASTM D638, ISO 527-2
Yield	23.4	MPa	ASTM D638, ISO 527-2
Fracture	31.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	8.0	%	ASTM D638, ISO 527-2
Fracture	900	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	910	MPa	ASTM D790B, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength			
-- [1]	210	kJ/m^2	ASTM D1822
--	210	kJ/m^2	ISO 8256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	62.0	°C	ASTM D648, ISO 75-2/B
Brittleness Temperature	< -76.0	°C	ASTM D746, ISO 974
Vicat Softening Temperature	127	°C	ASTM D1525, ISO 306
Peak Melting Temperature	130	°C	ASTM D3418, ISO 3146
Peak Crystallization Temperature (DSC)	118	°C	ASTM D3418, ISO 3146
NOTE			
1.	Type S		

Recommended distributors for this material

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