

ExxonMobil HDPE

HYA 600

Blow Molding Resin

Description

HYA 600 is a general purpose HDPE resin, characterized by very easy processability, an excellent balance of rigidity and impact strength and a good ESCR.

Applications

- bottles for household, industry and chemicals
- containers up to 30 l.

Additive Package	Thermal Stabilizer
HYA 600	Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index (21.6 kg, 47.6 lb)	ASTM D 1238	29 g/10 min	
Melt Index (2.16 kg, 4.76 lb)	ASTM D 1238	0.35 g/10 min	
Density	ExxonMobil Method	0.954 g/cm ³	
Vicat Softening Point	ASTM D 1525	128 °C	262 °F

Molded Properties			
Tensile Strength at Yield ¹	ASTM D 638	27 MPa	3900 psi
Tensile Strength at Break ¹	ASTM D 638	> 15 MPa	> 2200 psi
Elongation at Break ¹	ASTM D 638	> 450 %	
1% Secant Modulus ²	ASTM D 638	900 MPa	130500 psi
IZOD Impact	ASTM D 256	14 KJ/m ²	6.7 ft-lb/in ²
Shore Hardness, D	ASTM D 2240	62	
Environmental Stress Crack Resistance ³	ASTM D 1693	22 hrs	
Environmental Stress Crack Resistance ⁴	ASTM D 1693	53 hrs	

The molded properties have been measured on compression molded sheets, prepared according to ASTM D 4703.

(1) Specimen type T4 / thickness 3 mm (118 mil) speed of testing 50 mm/min (1970 mil/min).

(2) Specimen type T4 / thickness 3 mm (118 mil) speed of testing 5 mm/min (197 mil/min).

(3) Conditions B, F50, 10 % Igepal

(4) Conditions B, F50, 100 % Igepal

HYA 600 can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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