

Equate EMDA-6200 HDPE Blow Molding Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

EMDA-6200 grade is a high-density polyethylene copolymer resin designed for blow molding small to medium size bottles. It can be used on intermittent as well as continuous blow molding machines for high-speed production of high quality bottles. The bottles have excellent environmental stress cracking resistance and a good balance of rigidity and impact strength. They are easily trimmed and exhibit excellent surface attributes. Applications: EMDA-6200 is intended for producing containers of up to 10 liter capacity for packaging household and industrial chemicals (detergents, bleach, fabric softeners, etc.) toiletries, cosmetics and food products. It is also suitable for producing thin-walled parts and household items. In addition EMDA-6200 can also be used successfully for extruding sheets and profiles including corrugated drainage pipes. Information provided by Equate

Order this product through the following link:

http://www.lookpolymers.com/polymer_Equate-EMDA-6200-HDPE-Blow-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	50 hour	50 hour	F50; ASTM D1693 B
Melt Flow	0.40 g/10 min @Load 2.16 kg	0.40 g/10 min @Load 4.76 lb	ASTM D1238
High Load Melt Index	29 g/10 min @Load 21.6 kg	29 g/10 min @Load 47.6 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM D638
Elongation at Break	1140 %	1140 %	ASTM D638
Flexural Modulus	1.25 GPa	181 ksi	ASTM D790
Crush Resistance	50.0 kg	110 lb (mass)	41g Boston Round Quart Bottle; ASTM D2659

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	ASTM D969
Melting Point	135 °C	275 °F	Equate Test Method
Crystallization Temperature	112 °C	234 °F	Equate Test Method
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM D648

Vicat Softening Point Thermal Properties	125 °C Metric	257 °F English	ASTM D1525 Comments
Brittleness Temperature	<= -100 °C	<= -148 °F	ASTM D746

Processing Properties	Metric	English	Comments
Zone 1	175 - 180 °C	347 - 356 °F	
Zone 2	185 - 190 °C	365 - 374 °F	
Zone 3	185 - 190 °C	365 - 374 °F	
Zone 4	185 - 190 °C	365 - 374 °F	
Adapter Temperature	185 - 190 °C	365 - 374 °F	
Die Temperature	185 - 190 °C	365 - 374 °F	
Melt Temperature	200 - 215 °C	392 - 419 °F	Intermittent Machines
	215 °C	419 °F	90 RPM
	220 °C	428 °F	130 RPM
Head Temperature	185 - 190 °C	365 - 374 °F	

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