

Technical Data

Product Description

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.

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.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Features	• Copolymer • Good Impact Resistance	• Good Surface Finish • High Density	• High ESCR (Stress Crack Resist.) • Medium Rigidity
Uses	• Blown Containers • Bottles • Cosmetic Packaging	• Food Containers • Household Goods • Profiles	• Sheet • Thin-walled Parts
Agency Ratings	• EU 90/128/EEC	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Blow Molding	• Profile Extrusion	• Sheet Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	0.956	0.954 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.40 g/10 min	0.40 g/10 min	
190°C/21.6 kg	29 g/10 min	29 g/10 min	
Environmental Stress-Cracking Resistance			ASTM D1693B
F50	50.0 hr	50.0 hr	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3920 psi	27.0 MPa	ASTM D638
Tensile Elongation (Break)	1100 %	1100 %	ASTM D638
Flexural Modulus	181000 psi	1250 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance - Mean Failure Height ³	170 in	430.00 cm	ASTM D2463

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	158 °F	70.0 °C	
Brittleness Temperature	< -148 °F	< -100 °C	ASTM D746
Vicat Softening Temperature	257 °F	125 °C	ASTM D1525
Melting Temperature	275 °F	135 °C	Internal Method
Peak Crystallization Temperature (DSC)	234 °F	112 °C	Internal Method
CLTE - Flow	6.7E-5 in/in/°F	1.2E-4 cm/cm/°C	ASTM D696

Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Top Crushing Load at Failure ³ (73°F (23°C))	50000 g	50000 g	ASTM D2659

Extrusion	Nominal Value (English)	Nominal Value (SI)
Cylinder Zone 1 Temp.	347 to 356 °F	175 to 180 °C
Cylinder Zone 2 Temp.	365 to 374 °F	185 to 190 °C
Cylinder Zone 3 Temp.	365 to 374 °F	185 to 190 °C
Cylinder Zone 4 Temp.	365 to 374 °F	185 to 190 °C



EQUATE PE EMDA-6200

High Density Polyethylene Copolymer

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Extrusion	Nominal Value (English)	Nominal Value (SI)
Adapter Temperature	365 to 374 °F	185 to 190 °C
Melt Temperature	392 to 419 °F	200 to 215 °C
Die Temperature	365 to 374 °F	185 to 190 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 41g Boston Round quart (0.946 liter) bottle



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Where to Buy

Supplier

EQUATE Petrochemical Company KSCC

, Kuwait

Telephone: +965-434-3666

Web: <http://www.equate.com/>

Distributor

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

