EQUATE PE EMDA-6200

also be used successfully for extruding sheets and profiles including corrugated drainage pipes.

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High Density Polyethylene Copolymer

EQUATE Petrochemical Company KSCC

Message:

190°C/21.6 kg

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

General Information 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 EU 90/128/EEC Agency Ratings FDA 21 CFR 177.1520 Forms Pellets Processing Method Blow Molding **Profile Extrusion** Sheet Extrusion Physical Nominal Value Unit Test Method 0.954 Specific Gravity g/cm³ ASTM D792 Melt Mass-Flow Rate (MFR) **ASTM D1238** 190°C/2.16 kg 0.40 g/10 min

g/10 min

| Environmental Stress-Cracking Resistance | | | |
|--|--|----------|-----------------|
| (F50) | 50.0 | hr | ASTM D1693B |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 27.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 1100 | % | ASTM D638 |
| Flexural Modulus | 1250 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Drop Impact Resistance - Mean Failure | | | |
| Height ¹ | 430.00 | cm | ASTM D2463 |
| Top Crushing Load at Failure ² (23°C) | 50000 | g | ASTM D2659 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 | | | |
| MPa, Unannealed) | 70.0 | °C | ASTM D648 |
| Brittleness Temperature | < -100 | °C | ASTM D746 |
| Vicat Softening Temperature | 125 | °C | ASTM D1525 |
| Melting Temperature | 135 | °C | Internal Method |
| Peak Crystallization Temperature (DSC) | 112 | °C | Internal Method |
| CLTE - Flow | 1.2E-4 | cm/cm/°C | ASTM D696 |
| Extrusion | Nominal Value | Unit | |
| Cylinder Zone 1 Temp. | 175 to 180 | °C | |
| Cylinder Zone 2 Temp. | 185 to 190 | °C | |
| Cylinder Zone 3 Temp. | 185 to 190 | °C | |
| Cylinder Zone 4 Temp. | 185 to 190 | °C | |
| Adapter Temperature | 185 to 190 | °C | |
| Melt Temperature | 200 to 215 | °C | |
| Die Temperature | 185 to 190 | °C | |
| NOTE | | | |
| 1. | 41g Boston Round quart (0.946 liter) bottle | | |
| 2. | 41g Boston Round quart (0.946 liter) bottle | | |

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