

# Egyeuroptene HX 3305 U

Linear Low Density Polyethylene

Egyptian European Company

## Message:

Egyeuropten HX 3305 U is a Linear Low Density Polyethylene powder, 1-hexene copolymer designed for Rotational molded items: Water tanks, Tanks, parts of the automotive and agricultural segments.  
It presents an adequate balance of processability and mechanical properties, with good resistance to environmental stress cracking.

| General Information   |  |                   |             |
|---|--|-------------------|-------------|
| Additive  | Antioxidation                          |                   |             |
|   | Long-term UV-8 stabilizer              |                   |             |
| Features  | Low density                            |                   |             |
|   | High ESCR (Stress Cracking Resistance) |                   |             |
|   | Copolymer                              |                   |             |
|   | hexene comonomer                       |                   |             |
|   | Antioxidation                          |                   |             |
|   | Good UV resistance                     |                   |             |
|   | Good weather resistance                |                   |             |
| Uses  | Agricultural application               |                   |             |
|   | Application in Automobile Field        |                   |             |
|   | Water tank                             |                   |             |
| Forms   | Powder                                 |                   |             |
| Processing Method   | rotomolding                            |                   |             |
| Physical  | Nominal Value                          | Unit              | Test Method |
| Density   | 0.933                                  | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                         | 4.7                                    | g/10 min          | ASTM D1238  |
| Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50) | > 1000                                 | hr                | ASTM D1693  |
| Mechanical  | Nominal Value                          | Unit              | Test Method |
| Tensile Strength (Yield)  | 19.0                                   | MPa               | ASTM D638   |
| Tensile Elongation (Break)  | > 1000                                 | %                 | ASTM D638   |
| Flexural Modulus  | 770                                    | MPa               | ASTM D790   |
| Impact  | Nominal Value                          | Unit              | Test Method |
| Impact Strength (-40°C, 3.17 mm)                                  | 55.0                                   | J                 | ARM         |
| Medium Particle Size  | 500.0                                  | µm                | ASTM D1921  |
| Thermal   | Nominal Value                          | Unit              | Test Method |
| Peak Melting Temperature  | 127                                    | °C                | ASTM D3418  |

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