

ExxonMobil HDPE AS55-03 High Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Product Description: AS55-003 is a blow molding grade high density polyethylene copolymer containing an antistatic additive. It provides a good balance of stiffness and stress crack resistance.
Availability: Latin America, North America and South America
Additive: Thermal Stabilizer: Yes
Antistatic: Yes
Applications: Drainage Pipes, Food packaging, Household and Industrial chemical containers, Pharmaceutical Packaging, Thermoformed Parts, Thin Gauge Sheet
Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-AS55-03-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM D4883
ESCR 100% Igepal®	30 hour	30 hour	ASTM D1963
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.3 MPa	4100 psi	ASTM D638
Elongation at Break	560 %	560 %	ASTM D638
Flexural Modulus	1.31 GPa	190 ksi	ASTM D790
Tensile Impact Strength	189 kJ/m ²	90.0 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Vicat Softening Point	127 °C	261 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	ASTM D746

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