

ExxonMobil HDPE HPA 020 Molding High Density Polyethylene (HMW) Resin

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

Material Notes:

Product Description: HPA 020 is a high molecular weight HDPE resin, characterized by excellent balance of rigidity, ESCR and impact strength. **Availability:** Africa & Middle East, Asia Pacific and Europe **Additive:** Thermal Stabilizer: Yes **Applications:** Drainage Pipes Heavy Gauge Sheet Large Part Blow Molding Large Parts & Containers (20 to 100 L) for non-food end uses **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-HPA-020-Molding-High-Density-Polyethylene-HMW-Resin.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D4883
ESCR 100% Igepal®	600 hour	600 hour	ASTM D1963
ESCR 10% Igepal®	490 hour	490 hour	ASTM D1963
Melt Flow	9.0 g/10 min @Load 21.6 kg, Temperature 190 °C	9.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63 @Time 15.0 sec	63 @Time 0.00417 hour	ASTM D2240
Tensile Stress	15.2 MPa @Strain 100 %	2200 psi @Strain 100 %	2 in/min; ASTM D412
Tensile Strength, Yield	24.8 MPa	3600 psi	2 in/min; ASTM D638
Elongation at Break	>= 100 %	>= 100 %	2 in/min; ASTM D638
Tensile Modulus	0.965 GPa	140 ksi	2 in/min; ASTM D638
Izod Impact, Notched	0.379 J/cm	0.710 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	129 °C	264 °F	ASTM D1525

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