

## Braskem GM5340PR High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

### Material Notes:

Triple-layer coating for metallic pipes; Umbilical pipes for offshore oil field platforms; Jacketing for wires and for optic fiber metallic cables; Self-propelled irrigation pipes; Localized irrigation pipes; Ducts for mining. Information provided by Braskem.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-GM5340PR-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Braskem-GM5340PR-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.959 g/cc	0.959 g/cc	ASTM D1505/D792
ESCR 100% Igepal®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	h/50%f; compression molded 2 mm notched-plaques; ASTM D1683
ESCR 10% Igepal®	200 hour @Temperature 50.0 °C	200 hour @Temperature 122 °F	h/50%f; compression molded 2 mm notched-plaques; ASTM D1683
Melt Flow	0.55 g/10 min @Load 2.16 kg, Temperature 190 °C	0.55 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	39 g/10 min @Load 21.6 kg, Temperature 190 °C	39 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM D2240
Tensile Strength at Break	28.0 MPa	4060 psi	ASTM D638
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM D638
Flexural Modulus, 1% Secant	980 MPa	142000 psi	ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	68.0 °C	154 °F	ASTM D648
Vicat Softening Point	121 °C	250 °F	ASTM D1525

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