



**Branched High Density Polyethylene
For Injection Molding and Extrusion Applications**

RAPREX® R-200 is a high density polyethylene based resin that exhibits an excellent balance of melt processability and physical properties due to its unique branched structure. It is a thermoplastic and is recyclable. Because of its high molecular weight and shear sensitivity, RAPREX® R-200 is used for injection molding. Because of its high melt strength, it is also used for films, extrusion coating and foam applications.

Property	Standard	Unit	Value
High Load Melt Flow Index (190°C, 21.6kg)	ASTM D1238	g/10 min	9.1
Density	ASTM D-792	g/cm ³	0.950
Tensile Strength @ Yield	ASTM D-638	psi (MPa)	5,670 (40)
Elongation @ Yield	ASTM D-638	%	9
Tensile Strength @ Break	ASTM D-638	psi (MPa)	3,030 (21)
Elongation @ Break	ASTM D-638	%	20
Flexural Modulus	ASTM D-790	psi (MPa)	180,000 (1,240)
Izod Notched Impact Strength at Room Temperature (23 °C)	ASTM D-256		No Break
Izod Notched Impact Strength at -40 °C	ASTM D-256		Partial Break
Brittleness Temperature	ASTM D-746	°C	< -75

The data contained in this document are based upon ASTM methods and procedures and are comprised of typical values that are neither intended to be viewed as nor relied upon as specifications. The customer should independently determine suitability for use. This data sheet is not intended to assure any properties or suitability for any specific purpose and is not intended to relieve processors from the responsibility of carrying out their own tests and experiments. Sterigenics U.S., LLC, its parent, subsidiaries and affiliates ("Sterigenics") make no representation, guaranty or warranty, express or implied. In particular, Sterigenics makes no representation, guarantee or warranty, express or implied, concerning the merchantability or fitness for a particular purpose of any of the products it supplies. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

Sterigenics International, Inc.
Advanced Applications
7695 Formula Place
San Diego, CA 92121
Tel: 858-271-6330 • FAX: 858-271-0957 • Toll Free: 888-RAPREX-1
Email: Materials@sterigenics.com
Web: www.raprex.com