



**Typical Application**

Housewares, Caps & Closures, Containers

**Product Description**

Ramolene HDIM 55200 is high density polyethylene that provides good processing characteristics and exhibits excellent toughness properties and color as well as low odor, and good molded-part stability.

Typical Properties	English Unit	SI Unit	ASTM
<b>Physical</b>			
Melt Flow Rate (190 °C / 2.16 kg)	20 g/10 min	20 g/10 min	D1238
Density (23 °C)	0.955 g/cm <sup>3</sup>	0.955 g/cm <sup>3</sup>	D1505
Bulk Density	38 lb/ft <sup>3</sup>	609 kg/m <sup>3</sup>	D1895
Spiral Flow	14.8 in	37.6 cm	Producer Method
<b>Mechanical Stress &amp; Impact</b>			
Flexural Modulus 1% Secant	167,000 psi	1,152 MPa	D790
Flexural Modulus 2% Secant	140,000 psi	966 MPa	D790
Flexural Young's Modulus	181,000 psi	1,249 MPa	D790
Tensile Modulus (1% Secant)	108,000 psi	745 MPa	D638
Tensile Young's Modulus	124,000 psi	856 MPa	D638
Tensile Stress/Strength at Break (23 °C)	3,920 psi	27 MPa	D638
Tensile Elongation at Break (23 °C)	9 %	9 %	D638
Notched Izod Impact Strength (23 °C)	0.55 ft-lb/in	29.4 J/m	D256
Unnotched Impact Strength (-18 °C)	14 ft-lb/in	750 J/m	D4812
<b>Hardness</b>			
Durometer Shore Hardness (Shore D)	70	70	D2240
<b>Thermal</b>			
Vicat Softening Temperature	257 °F	125.0 °C	D1525
Low Temperature Brittleness, F <sub>50</sub>	-4 °F	-20.0 °C	D746
Deflection Temperature Under Load (66 psi)	162 °F	72.2 °C	D648
Melting Temperature	268.2 °F	131.2 °C	D3418
Crystallization Temperature	241 °F	116.1 °C	D3418

All tests were run under laboratory conditions, ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of Ramtech's products must be guided by the user's own methods for selection of proper formulation. RAMTECH OVERSEAS, INC. disclaims any responsibility for misuse or misapplication of its products. Ramtech makes no warranty of merchantability and there is no warranty that goods supplied shall be fit for any particular purpose.