



**Typical Application**

Large Shipping Containers, Open Head Pails

**Product Description**

Ramolene HDIM 56180 is high density polyethylene that provides easy processing characteristics and exhibits excellent toughness properties and color as well as low odor and good processing stability.

Typical Properties	English Unit	SI Unit	ASTM
<b>Physical</b>			
Melt Flow Rate (190 °C / 2.16 kg)	18 g/10 min	18 g/10 min	D1238
Density (23 °C)	0.956 g/cm <sup>3</sup>	0.956 g/cm <sup>3</sup>	D1505
Bulk Density	35 lb/ft <sup>3</sup>	561 kg/m <sup>3</sup>	D1895
Spiral Flow	11.7 in	29.7 cm	Producer Method
<b>Mechanical Stress &amp; Impact</b>			
Flexural Modulus 1% Secant	204,000 psi	1,408 MPa	D790
Flexural Modulus 2% Secant	171,000 psi	1,180 MPa	D790
Flexural Young's Modulus	217,000 psi	1,497 MPa	D790
Tensile Modulus (1% Secant)	123,000 psi	849 MPa	D638
Tensile Young's Modulus	153,000 psi	1,056 MPa	D638
Tensile Stress/Strength at Break (23 °C)	3,480 psi	24 MPa	D638
Tensile Stress/Strength at Yield (23 °C)	4,230 psi	29 MPa	D638
Tensile Elongation at Break (23 °C)	62 %	62 %	D638
Tensile Elongation at Yield (23 °C)	8 %	8 %	D638
Notched Izod Impact Strength (23 °C)	0.58 ft-lb/in	31.0 J/m	D256
Unnotched Impact Strength (-18 °C)	No Break	No Break	D4812
<b>Hardness</b>			
Durometer Shore Hardness (Shore D)	69	69	D2240
<b>Thermal</b>			
Vicat Softening Temperature	256 °F	124.4 °C	D1525
Low Temperature Brittleness, F <sub>50</sub>	< -105 °F	< -76 °C	D746
Deflection Temperature Under Load (66 psi)	163 °F	72.8 °C	D648
Melting Temperature	266.4 °F	130.2 °C	D3418
Crystallization Temperature	239.7 °F	115.4 °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.