



**Typical Application**

Pallets, Crates, Trays, Tote Bins, Open Head Pails

**Product Description**

Ramolene HDIM 65820 is high density polyethylene homopolymer with a narrow molecular weight distribution that enhances processing and stiffness, exhibits excellent color, low odor, and good processing stability.

Typical Properties	English Unit	SI Unit	ASTM
<b>Physical</b>			
Melt Flow Rate (190 °C / 2.16 kg)	8.2 g/10 min	8.2 g/10 min	D1238
Density (23 °C)	0.965 g/cm <sup>3</sup>	0.965 g/cm <sup>3</sup>	D1505
Bulk Density	38 lb/ft <sup>3</sup>	609 kg/m <sup>3</sup>	D1895
Spiral Flow	9.9 in	25.1 cm	Producer Method
<b>Mechanical Stress &amp; Impact</b>			
Flexural Modulus 1% Secant	240,000 psi	1,656 MPa	D790
Flexural Modulus 2% Secant	204,000 psi	1,408 MPa	D790
Flexural Young's Modulus	257,000 psi	1,773 MPa	D790
Tensile Modulus (1% Secant)	144,000 psi	994 MPa	D638
Tensile Young's Modulus	180,000 psi	1,242 MPa	D638
Tensile Stress/Strength at Break (23 °C)	4,500 psi	31 MPa	D638
Tensile Stress/Strength at Yield (23 °C)	4,650 psi	32 MPa	D638
Tensile Elongation at Break (23 °C)	16 %	16 %	D638
Tensile Elongation at Yield (23 °C)	7 %	7 %	D638
Notched Izod Impact Strength (23 °C)	0.68 ft-lb/in	36.3 J/m	D256
Unnotched Impact Strength (-18 °C)	No Break	No Break	D4812
<b>Hardness</b>			
Durometer Shore Hardness (Shore D)	73	73	D2240
<b>Thermal</b>			
Vicat Softening Temperature	267 °F	130.6 °C	D1525
Low Temperature Brittleness, F <sub>50</sub>	-99 °F	-72.8 °C	D746
Deflection Temperature Under Load (66 psi)	181 °F	82.8 °C	D648
Melting Temperature	272.1 °F	133.4 °C	D3418
Crystallization Temperature	244 °F	117.8 °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.