



Typical Application

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

Product Description

Ramolene HDIM 60790 is high density polyethylene homopolymer with a narrow molecular weight distribution that exhibits enhanced flow characteristics and good balance of stiffness and impact resistance.

Typical Properties	English Unit	SI Unit	ASTM
Physical			
Melt Flow Rate (190 °C / 2.16 kg)	7.9 g/10 min	7.9 g/10 min	D1238
Density (23 °C)	0.960 g/cm ³	0.960 g/cm ³	D1505
Bulk Density	38 lb/ft ³	609 kg/m ³	D1895
Spiral Flow	8.6 in	21.8 cm	Producer Method
Mechanical Stress & Impact			
Flexural Modulus 1% Secant	190,000 psi	1,311 MPa	D790
Flexural Modulus 2% Secant	155,000 psi	1,070 MPa	D790
Flexural Young's Modulus	205,000 psi	1,415 MPa	D790
Tensile Modulus (1% Secant)	123,000 psi	849 MPa	D638
Tensile Young's Modulus	146,000 psi	1,008 MPa	D638
Tensile Stress/Strength at Break (23 °C)	2,300 psi	16 MPa	D638
Tensile Stress/Strength at Yield (23 °C)	4,250 psi	29 MPa	D638
Tensile Elongation at Break (23 °C)	380 %	380 %	D638
Tensile Elongation at Yield (23 °C)	11 %	11 %	D638
Notched Izod Impact Strength (23 °C)	1.4 ft-lb/in	74.7 J/m	D256
Unnotched Impact Strength (-18 °C)	No Break	No Break	D4812
Hardness			
Durometer Shore Hardness (Shore D)	70	70	D2240
Thermal			
Vicat Softening Temperature	264 °F	128.9 °C	D1525
Low Temperature Brittleness, F ₅₀	< -105 °F	< -76 °C	D746
Deflection Temperature Under Load (66 psi)	176 °F	80.0 °C	D648
Melting Temperature	270.9 °F	132.7 °C	D3418
Crystallization Temperature	240.6 °F	115.9 °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.