



Typical Application

Housewares, Caps & Closures, Containers

Product Description

Ramolene HDIM 52200 is high density polyethylene that provides easy processing characteristics and exhibits excellent toughness properties and color.

Typical Properties	English Unit	SI Unit	ASTM
Physical			
Melt Flow Rate (190 °C / 2.16 kg)	20 g/10 min	20 g/10 min	D1238
Density (23 °C)	0.952 g/cm ³	0.952 g/cm ³	D1505
Bulk Density	38 lb/ft ³	609 kg/m ³	D1895
Spiral Flow	11.6 in	29.5 cm	Producer Method
Mechanical Stress & Impact			
Flexural Modulus 1% Secant	167,000 psi	1,152 MPa	D790
Flexural Modulus 2% Secant	139,000 psi	959 MPa	D790
Flexural Young's Modulus	191,000 psi	1,318 MPa	D790
Tensile Modulus (1% Secant)	152,000 psi	1,049 MPa	D638
Tensile Young's Modulus	198,000 psi	1,366 MPa	D638
Tensile Stress/Strength at Break (23 °C)	3,040 psi	21 MPa	D638
Tensile Stress/Strength at Yield (23 °C)	3,730 psi	26 MPa	D638
Tensile Elongation at Break (23 °C)	34 %	34 %	D638
Tensile Elongation at Yield (23 °C)	10 %	10 %	D638
Notched Izod Impact Strength (23 °C)	0.73 ft-lb/in	39.0 J/m	D256
Unnotched Impact Strength (-18 °C)	No Break	No Break	D4812
Hardness			
Durometer Shore Hardness (Shore D)	69	69	D2240
Thermal			
Vicat Softening Temperature	255 °F	123.9 °C	D1525
Low Temperature Brittleness, F ₅₀	-103 °F	-75.0 °C	D746
Deflection Temperature Under Load (66 psi)	156 °F	68.9 °C	D648
Melting Temperature	263.1 °F	128.4 °C	D3418
Crystallization Temperature	237.4 °F	114.1 °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.