Iran Petrochemical (PCC) 3840 UA Medium Density Polyethylene

Categories: Polymer; Thermoplastic; Polyethylene (PE); Medium Density (MDPE); Medium Density Polyethylene (MDPE), Rotational Molded

Material Notes: MD3840UA is a linear medium density polyethylene (MDPE) with butene copolymer. This polymer has good impact strength, excellent external and internal surface finish, whiteness, good stress cracking resistance, UV stabilized.

Applications: rotational molded items with good stiffness, septic tanks, ordinary containers.

Information provided by Iran Petrochemical Commercial Co.

Vendors: No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.938 g/cc	0.0339 lb/in³	ASTM 1505-68
Environmental Stress Crack Resistance	400 hour	400 hour	ASTM D1693
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238-7

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	15.0 MPa	2180 psi	ASTM D638-72
Elongation at Break	>= 900 %	>= 900 %	ASTM D638
Flexural Modulus	0.650 GPa	94.3 ksi	ASTM D790
Charpy Impact, Notched	1.80 J/cm²	8.57 ft-lb/in²	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.480 W/m-K	3.33 BTU-in/hr-ft²-°F	ASTM D177
Vicat Softening Point	115 °C	239 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	131 °C	268 °F	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's terms of use regarding this information. Click here to view all the property values for this datasheet as they were originally entered into MatWeb.