Quadrant EPP Monocast® MC 904P Nylon for Pile Driver Pads (ASTM Product Data Sheet)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Pile driver pads are used to prevent damage to the pile and the piling hammer. Fillers are usually made of hardwood - Azobe, for example. The disadvantage of Azobe is the 30-40% energy loss and its relatively short useful life. Azobe is also difficult to remove from the piling pad.Monocast® pile driver pads last much longer, are easy to replace, are versatile (diesel hammer, steam hammer, prefab-piling, and vibro-piling), has the right elasticity to transmit the blow without damaging the pile or piling hammer. With MC® 904P's unique properties (coefficient of restitution with computations is 0.904; deformation under load at 122°F (50°C) 2000 psi (13.8 MPa) is 0.6% per ASTM D621), less energy is lost so piles can be driven faster with greater force.Information provided by Quadrant Engineering Plastic Products (formerly DSM EPP).

Order this product through the following link:
http://www.lookpolymers.com/polymer_Quadrant-EPP-Monocast-MC-904P-Nylon-for-Pile-Driver-Pads-ASTM-Product-Data-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in³	ISO 1183; ASTM D792
Water Absorption	0.30 %	0.30 %	24 hour immersion; (3.2 x 50.8 mm specimen); ASTM D570/ISO 62
Water Absorption at Saturation	7.0 %	7.0 %	ISO 62 (3.2 x 50.8 mm specimen); ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	>= 70	>= 70	ISO 2039-2; ASTM D785
Hardness, Rockwell R	>= 115	>= 115	ISO 2039-2; ASTM D785
Tensile Strength, Ultimate	>= 65.0 MPa	>= 9430 psi	ISO 527; ASTM D638
Elongation at Break	>= 50 %	>= 50 %	ASTM D638 and ISO 527
Modulus of Elasticity	>= 2.25 GPa	>= 326 ksi	ISO 527/ASTM D638
Izod Impact, Notched	>= 0.320 J/cm	>= 0.599 ft-lb/in	ASTM D256A
Charpy Impact, Notched	>= 0.400 J/cm²	>= 1.90 ft-lb/in²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	216 °C	421 °F	ISO 3146; ASTM D3418

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