

Polifil® 82MR

PA6-MX40

The Plastics Group of America

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Modulus	5516	MPa	ASTM D 638
Tensile Strength	82.7	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	6	%	ASTM D 638
Flexural Modulus	5171	MPa	ASTM D 790
Flexural Strength	131	MPa	ASTM D 790
Rockwell Hardness	R 114	-	ASTM D 785
Gardner Impact	1.36	J	ASTM D 2794,4226,5420
Izod Impact notched, 1/8 in	48	J/m	ASTM D 256
Thermal properties			
ASTM Data			
DTUL @ 66 psi	204	°C	ASTM D 648
DTUL @ 264 psi	120	°C	ASTM D 648
Other properties			
Water Absorption, 24hr	0.9	%	ASTM D 570
Density	1450	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Features

Low Odor

Delivery form

Pellets

Regional Availability

North America

Special Characteristics

Heat stabilized or stable to heat