

New Product Evaluation

PRODUCT	OMEGA LM
PROJECT	PIONEER
START DATE	November 1993
COMPLETION DATE	July 1995
OBJECTIVE	To design a bowling ball combining advanced dynamic principles with the latest Omega Level 4 Core technology. The core in conjunction with a re-engineered derivative, must accommodate a wide variety of lane conditions.
CORE	Based on the original Level 4 Core architecture, this redesigned configuration allows for maximum exploitation of the core's low moment of inertia.
VENEER	The redesigned Acryllium veneer allows for increased gripping characteristics. The new additive, JAJ-32, creates better skid properties in the front end of the lane while not interfering with the hook potential at the back-end. Approximately 4.25 lbs. of enhanced Acryllium in all finished weights.
PERFORMANCE CHARACTERISTICS	The redesigned veneer in conjunction with a technically advanced low moment of inertia core design offers a delayed gripping action with increased kinetic energy. The Omega LM weight series is engineered individually to create characteristics that are specific to each ball weight. There is an increased potential for angular rotation as the ball weight decreases, providing excellent performance consistency throughout the weight range. The Omega LM possesses a controllable arc style hook with a consistent back-end for most lane conditions.
TEST RESULTS	Through subsequent testing by Ebonite's Research and Development, Pro and amateur staffs, we have isolated a combination of characteristics in the Omega LM that fits an incredibly wide range of bowlers along with varying lane conditions.
QUALITY ASSURANCE DEPARTMENT EVALUATION	Based on the test results referenced above as well as in-house testing and production, this product is ready for introduction. Authorization is granted for unlimited production.

General Specifications

HARDNESS	76-79 Shore D		
TARGET WEIGHT	12, 13, 14, 15, 16 pound -1.0 oz., + 4.0 oz.		
TOP WEIGHT	2.5 to 4.5 ozs.	AVERAGE	3.0 ozs.
APPEARANCE	Black Acryllium Veneer 600 Sanded		
BALL ROUNDNESS	+ or - .002" nominal		
DIAMETER	8.540 - 8.595"	AVERAGE	8.585"
DRILLING	Omega LM may be drilled as you would drill the Omega I bowling ball.		

