

Global Ray Skin Market Growth 2026-2032

<https://marketpublishers.com/r/GD10B0109DF8EN.html>

Date: July 2026

Pages: 205

Price: US\$ 3,660.00 (Single User License)

ID: GD10B0109DF8EN

Abstracts

The global Ray Skin market size is predicted to grow from US\$ 10.76 million in 2025 to US\$ 35.52 million in 2032; it is expected to grow at a CAGR of 18.7% from 2026 to 2032.

Ray Skin (also known as stingray leather or shagreen) refers to natural leather material produced by tanning the raw hides of cartilaginous fish from the orders Rajiformes and Myliobatiformes (including families Dasyatidae, Rhinobatidae, and Mobulidae), representing a premium functional and decorative category within the international exotic leather industry. Ray skin is globally distributed, with major harvesting regions in Southeast Asia (Thailand, Indonesia, the Philippines), South Asia, South America, and West Africa. The surface of ray skin is covered with unique dermal denticles or calcified granules, which, after tanning, form a distinctive pattern of raised, pearl-like bumps with a lustrous appearance, giving it the Chinese common name 'pearl fish skin.' Among these, shovelnose ray (Rhinobatidae) skin is considered the highest quality—thick and hard; manta ray (Mobulidae) skin is also durable with larger granules; while stingray (Dasyatidae) skin has finer granules and is relatively softer. Ray leather is exceptionally tough and abrasion-resistant, with tear and puncture resistance far exceeding that of cowhide of the same thickness. It is also naturally waterproof, corrosion-resistant, and resistant to deformation. The processing of ray skin requires multiple complex steps including decalcification, degreasing, pickling, and chrome or vegetable tanning to remove surface calcium while preserving the natural granular texture. Because rays are wild marine fish that cannot be commercially farmed at scale, the raw material supply relies primarily on fishery bycatch, resulting in extremely limited global annual production. Ray skin is widely used in luxury watch straps, wallets, handbags, belts, footwear, knife sheaths, sword hilts, furniture upholstery, and musical instrument covering. Major consumer markets include Europe, North America, Japan, and China.

Price tiers by quality grade: Grade 1 tanned whole skins USD 100-300 per skin, Grade

2 USD 50-100, Grade 3 USD 20-40, Grade 4

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