

ICORENE® Rotomoulding Grades - ICO Polymers Europe

Description	Material Name	Density	MFI	General Characteristics	Typical Applications
Standard natural and black grades	ICORENE 2550	0.924	3.6	Flexible, tough, good ESCR, UV stabilised	Street furniture, floats and buoys
	ICORENE 3545	0.936	4.2	Medium stiffness, good processing speed, wide processing window, UV stabilised	General purpose such as containers, small tanks and industrial mouldings
	ICORENE 3560	0.935	5.0	Medium stiffness, good processing speed, wide processing window, UV stabilised	General purpose such as containers, small tanks and industrial mouldings
	ICORENE 3590	0.935	9.0	Medium stiffness, very high processing speed, UV stabilised	All general purpose mouldings or very intricate items
	ICORENE 3940	0.939	3.5	Good stiffness and hardness, wide processing window, UV stabilised	Tanks and other large mouldings
High Performance grades	ICORENE 1721	0.934	2.7	High ESCR and impact strength	Industrial mouldings, chemical tanks
	ICORENE 1781	0.934	8.0	Medium stiffness mPE, very high processing speed and wide processing window, high impact strength UV stabilised	All general purpose mouldings or intricate items
	ICORENE 1613	0.938	4.5	Medium high stiffness, excellent processing speed and flow with wide processing window, UV stabilised	Small tanks, tough stiff products needing higher flow for more intricate areas
	ICORENE 1741	0.940	4.0	High density metallocene material with very good impact properties. UV stabilised	Tanks and other large mouldings
	ICORENE 1339	0.943	3.0	High stiffness, high impact strength, UV stabilised	Big tanks and other large mouldings
Specialist powders	ICORENE M489	0.882	10.0	Ultra flexible, easy to process polymer with super toughness	Flexible bladders floats and buoys
	ICORENE PEBD	0.900	7.5	Very flexible, easy to process polymer with super toughness	Street furniture, floats and buoys
	ICORENE 1901	0.902	10.0	Rubbery PE with high flexibility and easy moulding. UV stabilised	Street furniture, floats and buoys
	ICORENE V 0230	0.902	3.0	Rubbery PE with high flexibility and toughness. UV stabilised	Street furniture, floats and buoys

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Specialist powders	ICORENE 1894	0.928	4.1	High impact strength and low stiffness, UV stabilised	Street furniture, low distortion general items
	ICORENE 35150	0.933	13.0	Very good processability, UV stabilised	Intricate difficult to mould items and toys
	ICORENE 1050	0.947	3.8	Excellent stiffness and impact strength. High hardness. UV stabilised	Boats, Kayaks, canoes
	ICORENE A125	0.951	3.2	Excellent stiffness and impact strength. High hardness. UV stabilised	Boats, Kayaks, canoes
Additional specialities	ICORENE 1613 BK 85	0.938	4.5	Black UV stabilised grade	Diesel tanks
	ICORENE 1781 V2	>1.00	8.0	UL94 V2 rated flame retardant polyethylene. Easy moulding. UV stabilised	Tanks and bins required to have flame retardancy
	ICORENE 1781 SC	0.935	8.0	Semi Conductive black PE. Exhibits good flow and impact properties. UV stabilised	Bins, covers, housings requiring permanent electrical conductivity
	ICORENE 8005	0.935	N/A	Foam concentrate to blend with natural powder to create a foam mixture that is easy to use	Second shot material in boats, insulated boxes, covers, wheels
	ICORENE 5445	0.935	N/A	Foam powder designed for easy and consistent moulding of two or three layer structures	Second shot material with low density for use in boats, insulated boxes, covers, wheels
	ICORENE Kcel100	0.935	N/A	Foam pellet giving one shot capability. For best use requires advice from ICO specialists on tooling and processing	Twin wall fill products such as IBC, open insulated boxes, lids, fins, surfboards and ramps
	ICORENE K1500 Nat ICORENE K1502 Black	0.945	N/A	Cross link mPE ultimate HDPE for all round toughness, ESCR, chemical resistance, super flow and ease of use. UV stabilised	Hydraulic oil tanks, fuel tanks, chemical tanks and abrasion applications
	ICORENE PPCO14 RM ICORENE PPCO14 RM BP (Black)	0.900	15.0	PP copolymer. Very high stiffness combined with high temperature and scratch resistance. Easy to mould and UV stable	Engine components, small tanks, ducting and industrial housings
	ICORENE 9005 V5	1.020	N/A	Nylon 12. Easy to mould exhibiting high temperature resistance and stiffness	Engineering performance products such as automotive

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