

# Icorene Rotomoulding Grade Range 2022-2023

Type	Code	Density	MFI	Characteristics	Typical Applications
Standard UV grades	3545	0.935	4.2	Medium stiffness, easy to mould	General purpose
	3560	0.935	5	Medium stiffness, easy to mould	General purpose
	3575	0.935	7	Medium stiffness hexene high flow, easy to mould	General purpose items
	3590	0.935	9	Medium stiffness, high flow, good whiteness, low pinholes	Designer items, general purpose mouldings & toys
	3855	0.938	5	Higher stiffness hexene with good flow	Medium tanks, general items
High performance UV Hexene grades	1210	0.926	3.3	Flexible and tough with very high impact strength & ESCR	IBCs, floats and bins
	1314	0.939	3	Very high ESCR & impact with good stiffness, TÜV (nat & blk)	Large tanks, Heating oil, Chemical, Septic & Agricultural tanks
	1339	0.943	3	Very high stiffness, high impact strength and ESCR	Big tanks and other large mouldings
	1380	0.939	4	Very high ESCR & impact with good stiffness, TÜV (nat & blk)	Large tanks, Heating oil, Chemical, Septic & Agricultural tanks
	1440	0.940	4	High density PE material with very good impact	Big tanks and other large mouldings
	1460	0.936	7.5	Medium stiffness PE, with high cure speed and wide impact window	Fuel tanks, custom parts
	1490	0.936	12	Very high ESCR and cold impact strength, low pinholes on the surface	Cleaning machines, furniture
	1613	0.938	4.5	Good stiffness, high processing speed, impact strength & ESCR, DiBt & TÜV (nat)	Small and medium tanks, versatile grade
	1613 BK85	0.938	4.5	Good stiffness, high processing speed, impact strength & ESCR, DiBt & TÜV	Diesel, ad-blue, biodiesel tanks
	1741	0.941	4	High density metallocene PE material with very good impact, TÜV (nat & blk)	Large tanks, stiff custom parts
1761	0.936	6	Medium stiffness metallocene PE, high processing speed, TÜV (blk)	Diesel tanks, custom parts	
X Link HDPE	1505	0.945	N/A	Cross-link HDPE. Ultimate HDPE for toughness, superior ESCR, chemical resistance, high melt flow, low odor, TÜV (Blk)	Hydraulic oil tanks, fuel tanks, chemical tanks and abrasion applications
High performance UV Hexene pellets	LL 2635 UA	0.926	3.3	Flexible and tough, premium UV	IBCs, floats and bins
	HD 3850 UA	0.938	4.5	Balance between stiffness, impact and good processing, premium UV	Medium tanks, fuel tanks
	HD 3930 UA	0.939	3	High Impact and ESCR, premium UV	Big tanks, fish boxes
	HD 4330 UA	0.943	3	High Stiffness, premium UV	Weight saving big tanks
	3621 M RM	0.936	7.5	Balance between stiffness, impact and good processing, premium UV	Medium tanks, fuel tanks
	4021 K RM	0.940	4	High impact and ESCR, premium UV	Big tanks and other large moldings

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5172/22/04

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Flexible	1901	0.902	10	Rubber-like PE with high flexibility and easy moulding	Street furniture, floats and buoys
Flame retardant	1762 V2	>1.00	5	Non-halogenated V2 rated for 3 mm flame retardant PE. Easy moulding	Bins and industrial parts required to have flame retardancy
	9106 V0	>1.00	N/A	Non-halogenated "UL94 V0 certified" for 5 mm flame retardant off white coloured PE.	Engine housing, machine covers, electrical covers and boxes
Speciality	1062ESF	0.934	8	"Next generation" enhanced surface finish, good flow, no surface pinholing, good physical properties	Designer furniture, hygienic & medical applications
	3590 SC Black	0.935	9	Semi Conductive black PE. Features good flow and impact properties	Bins, covers & machine housings
	1869	0.927	3.5	Metal adhesive grade with excellent toughness and metal bonding properties	Corrosion protection, rotolining of pipes or tanks
	1870	0.939	20	Enhanced adhesive grade with excellent metal bonding properties, especially for aluminum	Fire extinguishers, ad-blue tanks, corrosion protection, rotolining of pipes or tanks
	3150	0.935	13	Extremely high flow PE with medium stiffness, low pinholes	Furniture, lighting, intricate mouldings
	4014	0.900	15	PP copolymer. Used for its higher stiffness, temperature & scratch resistance. Easy to mould. UV stabilised	Engine components, small tanks, ducting and industrial housings
	5045 SL	0.950	5.9	High UV rated HDPE, extremely rigid, hard and tough	Kayaks and boats, and items requiring high rigidity with toughness and low temperature
	7710	1.150	N/A	Nylon 6. Very high temperature and high impact resistance. Fully stabilized	Engineering performance products e.g. ducts
	9402	0.890	30	Optimum hot and cold Elastomer, soft touch, easy to process and extremely tough	Furniture, marine buffers and automotive ducting
	9468	1.110	8.5	Flexible and tough with very high scratch resistance	Interior parts automotive
	9909	1.200	19	Polycarbonate, glass clear, UV stabilised roto powder. Very high stiffness & hardness with inherent flame retardancy	Lighting globes and point of sale items
9993	1.800	N/A	PVDF. Easy to mould exhibiting EXTREMELY high temperature, flame and chemical resistance	Engineering performance products eg. Chemical tanks and ducts	

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