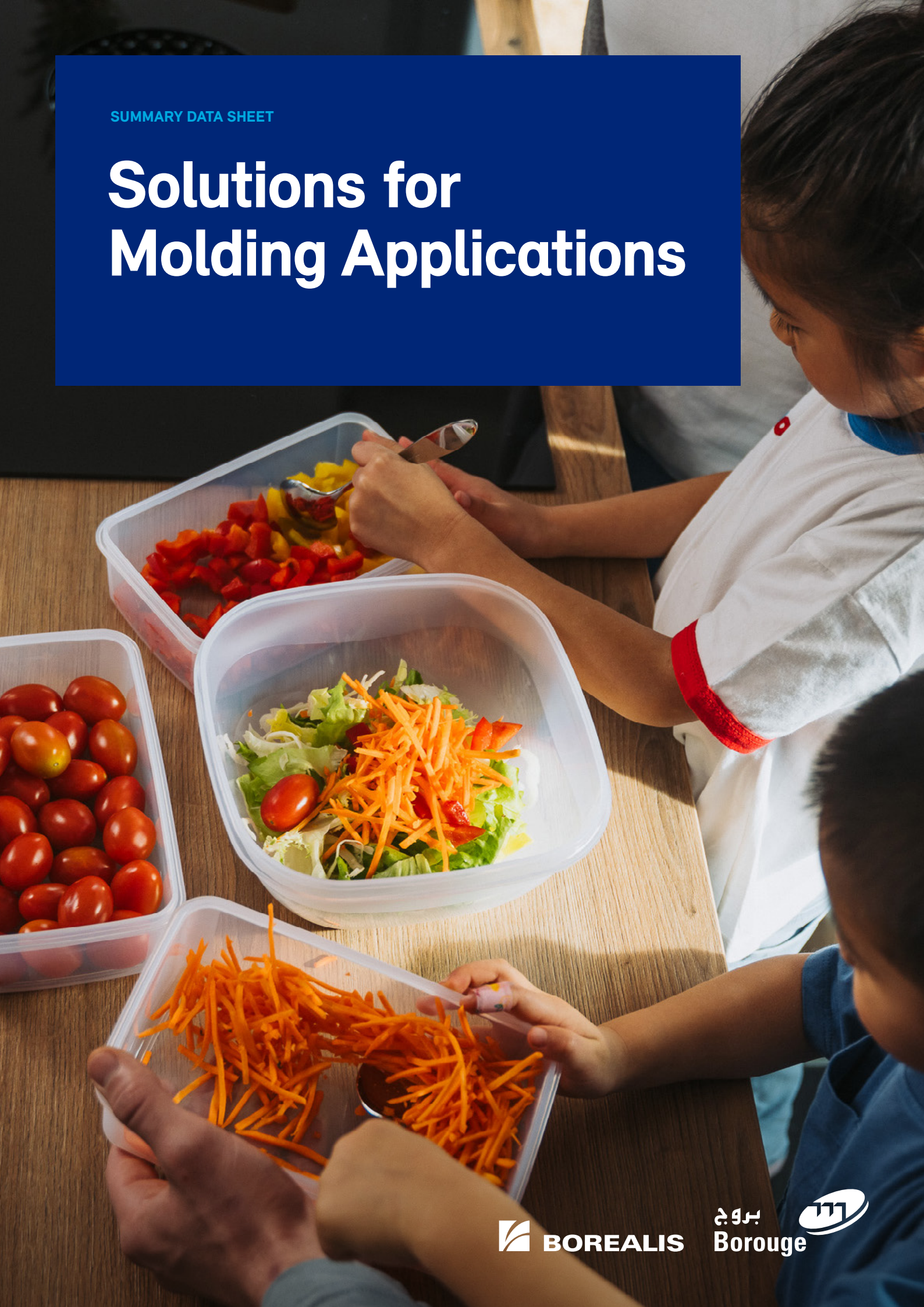
SUMMARY DATA SHEET

Solutions for Molding Applications



BOREALIS

Borouge

Molding product nomenclature key

Polyethylene

M	**B**: Blow moulding **M**: Injection moulding
B	
5	**0**: $MFR_{2.16}$ 0-4 **1**: $MFR_{2.16}$ 4.1-18 **2**: $MFR_{2.16}$ > 18 **3**: $MFR_{2.16}$ 0-0.4 **4**: $MFR_{2.16}$ 0.41-0.7 **5**: $MFR_{2.16}$ 0.71-1.4 **6**: $MFR_{2.16}$ 1.41-2.9 **7**: $MFR_{2.16}$ 3.0-5.0 **8**: $MFR_{2.16}$ 5.1-8.0 **9**: $MFR_{2.16}$ > 8.1
5	**Density**: corresponds to 956 kg/m^3
6	
8	

Polypropylene

R	**H**: Homopolymer **B**: Block copolymer **R**: Random polymer **S**: Specialities
J	**A**: MFR 0-0.8 **B**: MFR 0.8-2.5 **C**: MFR 2.5-5.0 **D**: MFR 5.0-10 **E**: MFR 0-15 **F**: MFR 15-20 **G**: MFR 20-30 **H**: MFR 30-50 **J**: MFR 50-100
7	
6	
6	
M **O**	**MO**: Product belonging to moulding

Test methods	
Melt flow rate	ISO 1133
Tensile modulus, stress & strain	ISO 527-2
Charpy impact strength, notched	ISO 179/1eA
ESCR	ASTM 1693 (10 % igepal)
Density	ISO 1183
HDT, method B (0.45 MPa)	ISO 75-2

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Melt flow rate	ISO 1133
Tensile modulus	ISO 527-2
Charpy impact strength, notched	ISO 179/1eA
HDT, method B (0.45 MPa)	ISO 75-2

Mechanical properties determined on injection moulded specimens made according to ISO 1873-2, based on 7 days conditioning time

Product name	Conversion	MFR (g/10 min) PE: 190 °C/2.16kg	Density (kg/m³)	Tensile Modulus (MPa)	Charpy 23 °C (kJ/m²)	HDT B (°C)	ESCR (h) Igepal 10%	ESCR on caps (h) – Borealis internal method	Characteristics	Thin wall packaging	Houseware	Transport packaging	Caps & closures	Technical applications	Bottles and containers	Sheet
PE high density																
BB2541	BM	0.3	954	950	36	63	500		mutlimodal						•	
BB2581	BM	0.3	958	1000	36	66	100		mutlimodal						•	
BorPure™ MB5568	IM, CM	0.8	956	950	15			65	mutlimodal			•	•			
BorPure™ MB5569	IM, CM	0.8	956	950	15			65	multimodal, SA				•			
BorPure™ MB7541	IM, CM	4	954	950	9	61		12	mutlimodal			•	•			
PE low density																
CT7200	IM	5	918	140									•			
MA8200	IM	7.5	920	145									•			
CA9150	IM	15	915	124									•			
Plastomers																
Queo™ 0203	BM, IM	3	902	65					impact modification				•		•	
Queo™ 1007	IM	6.6	910	17									•			
Queo™ 8210LA	IM	10	883	13									•			
Queo™ 8230	IM	30	883	7					impact modification		•		•			

Abbreviations
AS: antistatic agent
BNT: Borstar Nucleation Technology
CR: controlled rheology
NU: nucleating agent
SA: slip agent
UV: UV stabilised
HDT: heat deflection temperature –
ISBM: injection stretch blow moulding
IM: injection moulding
BM: blow moulding
CM: compression moulding

Product name	Conversion	MFR (g/10 min) PE: 190 °C/2.16kg	Tensile Modulus (MPa)	Flexural Modulus (MPa)	Charpy 23 °C (kJ/m²)	Charpy -20 °C (kJ/m²)	HDT B (°C)	Characteristics	Thin wall packaging	Houseware	Transport packaging	Caps & closures	Technical applications	Bottles and containers	Sheet
PP heterophasic (block) copolymers															
BB125MO	BM, sheet	1.3	1300	1200	50	7	85	NU			•			•	•
BC245MO	IM	3.5	1350	1250	15	6.5	85	AS, NU			•				
BC250MO	IM	4	1200	1100	25	7.5	80	AS, NU			•				
BD950MO	IM, CM	7	1500	1400	8	4	90	BNT, AS, SA				•			
BD310MO	IM	8	1400	1300	9	4	85	AS, NU		•	•		•		
BE961MO	IM	12	1200	1250	13	6.5	92	BNT, AS	•	•	•	•	•		
BE170CF	IM	13	1250	1100	6	3.5	80			•	•				
BF970MO	IM	20	1500	1450	8	4.5	102	BNT, AS	•	•	•	•	•		
BH381MO	IM	35	1700	1600	6.5	3.5	105	BNT, AS	•	•	•	•	•		
BH345MO	IM	45	1400	1300	6	3.5	85	AS, NU	•	•		•			
BH374MO	IM	45	1500	1400	5	3.5	95	BNT, AS	•	•					
BH348MO	IM	50	1150	1050	10	5	85	BNT, AS	•	•					
BJ368MO	IM	70	1500	1500	5.5	3.5	102	BNT, AS	•	•		•			
BJ380MO	IM	80	1300	1200	5	3.5	90	CR, AS, NU	•	•					
BJ356MO	IM	100	1600	1500	4	2.5	105	AS, NU	•	•					
BJ998MO	IM	100	1400	1300	5	3	100	BNT, AS	•	•					
PP specialities															
SD233CF	IM	7	600	600	10	5	55	High softness, transparent	•	•		•			
SH950MO	IM	40	1050	950	8	3	75	BNT, AS, transparent with impact	•	•		•			

Product name	Conversion	MFR (g/10 min) PE: 190 °C/2.16kg	Tensile Modulus (MPa)	Flexural Modulus (MPa)	Charpy 23 °C (kJ/m²)	HDT B (°C)	Characteristics	Thin wall packaging	Houseware	Transport packaging	Caps & closures	Technical applications	Bottles and containers	Sheet
PP homopolymers														
HE125MO	IM	12	1550	1350	3.5	88			•		•			
HF955MO	IM	20	2200	2000	2.5	115	BNT	•	•		•	•		
HF136MO	IM	20	1500	1300	3	85	CR		•					
HG385MO	IM	25	1750	1700	3	108	BNT, CR, AS, SA				•			
HG313MO	IM	30	1500	1300	2.5	90	CR, AS, NU, SA	•			•			
HJ325MO	IM	50	1650	1500	2	100	CR, AS, NU	•	•		•			
PP random copolymers														
RB307MO	BM	1.5	900	850	20	70	NU						•	
RB206MO	BM	1.9	1150	1100	7	80	NU, hot fill						•	
RE420MO	IM	13	1100	1150	6	75	AS, NU	•	•		•		•	
BorPure™ RF777MO	IM	20	1100	1050	6	72	AS, BNT	•	•		•		•	
RF365MO	IM	20	1150	1100	5.5	75	AS, NU	•	•		•		•	
BorPure™ RG466MO	IM	30	1100	1050	5.5	75	BNT, AS, good organoleptics	•	•		•			
BorPure™ RJ377MO	IM	45	1100	1100	4	75	BNT, AS, good organoleptics	•	•		•			
BorPure™ RJ378MO	IM	45	1100	1100	4	75	BNT, AS, good organoleptics	•	•		•			
BorPure™ RJ766MO	IM	70	1150	1050	4	75	BNT, AS, good organoleptics	•	•		•			
RJ908MO	IM	80	1150	1100	4	80	CR, AS, NU	•	•		•		•	

Bornewables™ and Borcycle™ C including PPWR

Accelerating action on circularity with the Bornewables™ and Borcycle™ C ISCC PLUS-certified polyolefins

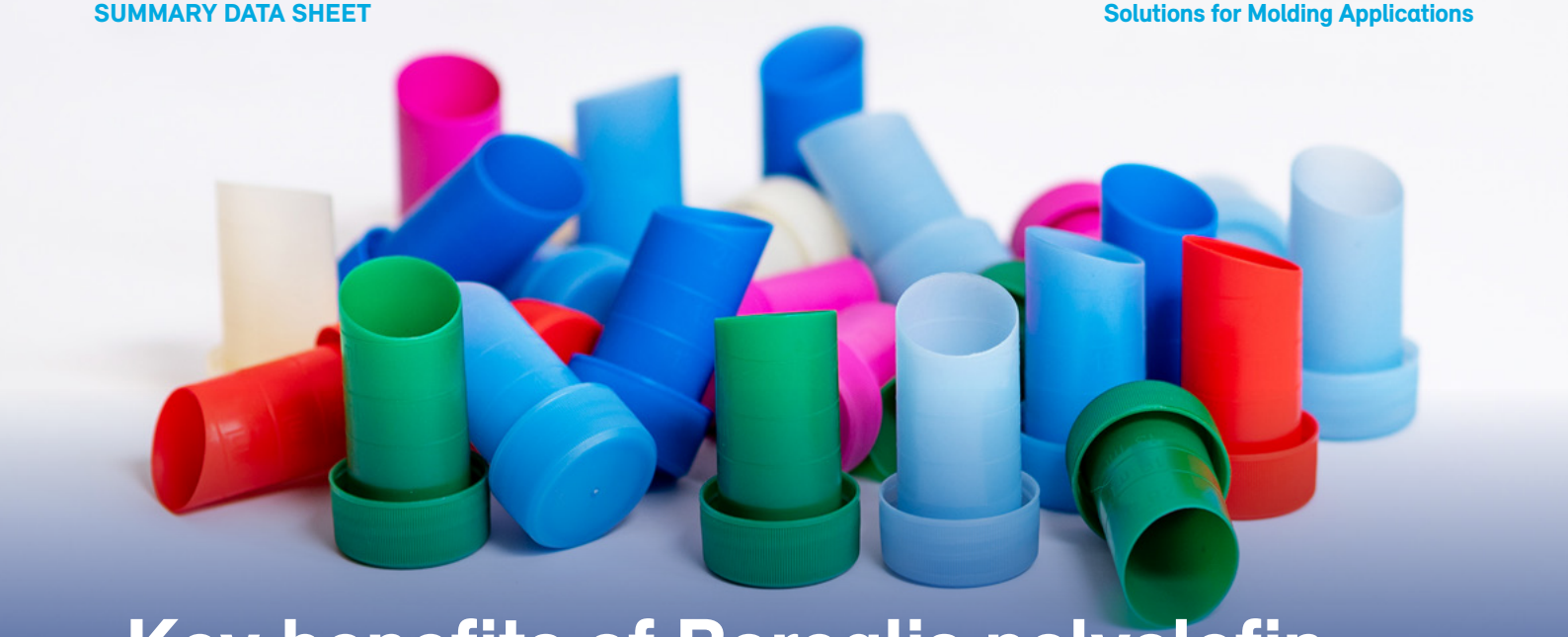
Meet your sustainability targets with renewable or chemically recycled feedstocks, offering the same material performance and regulatory compliance as virgin grades.

The Bornewables

The Bornewables offer polyolefins with a reduced carbon footprint and are produced with renewable feedstock derived entirely from waste and residue streams.

Borcycle C

Borcycle C is our chemically recycled line of polyolefins and renews plastic back to plastic, giving polyolefin-based, post-consumer waste another life and delivering on the European Packaging, Packaging Waste Regulation (PPWR) requirements in contact sensitive applications.



Key benefits of Borealis polyolefin solutions for molding

With over 40 years of experience supplying resins for extrusion blow and injection molding, Borealis offers a broad portfolio suitable for a wide range of applications, including HDPE bottles and caps, customized caps, thin wall packaging, and houseware articles. This expertise is complemented by our in-house injection molding and extrusion blow molding lines, allowing us to provide practical development support for applications with the most demanding technical requirements.

Broad portfolio

- Solutions include heterophasic (block) copolymers, random copolymers, homopolymers, and specialties.
- Covers a wide MFR range (from 0.3 to 100 g/10 min), densities, and stiffness levels.
- Suitable for all major molding conversion technologies, including injection and blow molding.

Fit-for-purpose mechanical performance

- Grades with a range of stiffness and impact strength combinations to support a variety of end uses.
- Grades with very low stress whitening help maintain a clean, high-quality appearance under pressure or bending.
- Strong environmental stress cracking resistance (ESCR) supports durable performance in demanding closures and packaging applications.
- Queo™ plastomer grades offer outstanding toughness, puncture resistance, and low-temperature impact resistance.

Excellent visual and surface properties

- Grades with good gloss and high clarity support visually appealing products.
- Select materials offer very high transparency, suitable for premium or see-through packaging.

Efficient processing

- Grades that support high-speed injection molding through high melt flow and/or easy ejectability.
- Borealis' Borstar™ Nucleation Technology (BNT) enables faster crystallization, reduced cycle times, and thinner wall design.
- Grades with excellent melt strength and melt stability, ideal for blow molding and sheet extrusion applications.
- Grades optimized for low-temperature processing, helping to lower energy use and speed up cycles.

Food contact and organoleptic performance

- Grades that meet strict taste and odor requirements, suitable for a wide range of food contact applications.
- BorPure™ grades combine excellent organoleptic performance with high purity, transparency, and gloss—ideal for sensitive or premium food packaging.

Sustainability

- All grades are also available as Bornewables™ (based on renewable feedstock) or Borcycle™ C (based on chemically recycled feedstock).

Borealis and Borouge consumer products solutions are making everyday life easier

date of issue: **August 2025**

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