

Properties	Test Method	Unit	Small part blow moulding		Large part blow moulding				Tape and monofilament	Compression moulding		Film extrusion
			Safrene® F 7650	Safrene® H 4765	Safrene® M 7650	Safrene® M 7055	Safrene® M 6650	Safrene® M 5650	Safrene® F 7740F3	Safrene® E 5560	Safrene® E 4055	Safrene® M 9255F
Physical properties												
MFR (190 °C/5 Kg)	ISO 1133	g/10min	1.7	1.4	0.35	0.3	0.20	0.17	1.5	1.5	3.8	0.3
MFR (190 °C/21.6 Kg)	ISO 1133	g/10min	N/A	N/A	9.5	8.5	5.0	4.1	N/A	N/A	N/A	8.5
Density	ISO 1183	g/cm³	0.950	0.958	0.953	0.954	0.953	0.952	0.947	0.957	0.956	0.953
Mechanical properties												
Hardness Shore D	ISO 868	Units	62	64	62	63	63	63	62	63	63	64
Tensile Yield	ISO 527	Mpa	23	29	26	28	26	26	21	28	28	27
Ultimate Tensile	ISO 527	Mpa	36	34	40	26	46	46	33	35	33	35
Ultimate Elongation	ISO 527	%	> 600	> 600	> 600	> 600	> 600	> 600	> 600	> 600	> 600	>600
Flexural Modulus	ISO 178	Mpa	1200	1450	1300	1300	1300	1300	1250	1450	1400	22
Environmental Stress-Crack Resistance	ASTM D1693	hours	> 1000	150	> 1000	> 1000	> 1000	> 1000	N/A	150	550	N/A
Impact												
Charpy Notched Impact Strength (23°C)	ISO 179	KJ/m²	11	13	23	25	43	50	N/A	12	4.5	25
Charpy Notched Impact Strength (-30°C)	ISO 179	KJ/m²	8	9	20	18	36	45	N/A	9	7	18
Thermal												
Typical Melt Temperature	N/A	°C	180 – 190	190 – 200	200	210-230	200 – 220	200 - 220	210 - 240	190 – 200	190 -200	220 – 230
Vicat Softening Point (10N)	ISO 306/A	°C	126	128	128	129	129	129	128	128	126	127
Vicat Softening Point (50N)	ISO 306/B	°C	70	78	78	80	80	80	79	78	80	75
Crystalline Melting Range	ISO 3146	°C	130 – 133	130 -133	130 – 133	130-133	130 – 133	130 -133	130 - 133	130 - 133	130 - 133	130 – 133
Application			Personal care-, household and chemical containers	Juice containers, cosmetics and general purpose containers	Industrial chemical containers, sheet extrusion, optical fibre sheathing	1000 L – 5000 L of blow molded tanks	Drums and industrial containers up to 250 litres	Drums and industrial chemical containers up to 2000 litres	Monofilaments, tapes, laminations, co-extruded films, drip-bag over pouches	Caps and closures: Carbonated and non-carbonated beverages	Caps and closures: Carbonated and non-carbonated beverages	Blown films, general extrusion process

N/A = Not available

Properties	Test Method	Unit	Pipe
			iIMPACT 100®
Physical properties			
MFR (190 °C/5 Kg)	ISO 1133	g/10min	0.3
MFR (190 °C/21.6 Kg)	ISO 1133	g/10min	9.0
Density	ISO 1183	g/cm³	0.957
Carbon black content	ISO 6964	%	2.0 – 2.5
Carbon black dispersion	ISO 18553	N/A	≤ 3
Mechanical properties			
Hardness Shore D	ISO 868	Units	63
Tensile Yield	ISO 527	Mpa	26
Ultimate Tensile	ISO 527	Mpa	33
Ultimate Elongation	ISO 527	%	> 750
Thermal			
Typical Melt Temperature	N/A	°C	190 – 220
Oxidation Induction Time (210 °C)	ISO 11357	min	> 30
Application	Piping for potable water, pumped sewers, gas distribution.		



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