

Properties	Test Method	Unit	Random polymers		Impact Copolymers					Homopolymers						
			Advance 400®	Advance 150® plus	Safron® C790-90RNA	Safron® C740-25RNA	Safron® C765-15NA	Safron® C722-07NA	Safron® C142-01NA	Safron® H504-12M	Safron® H707-12NSM	Safron® H713-06	Safron® H511-03	Safron® H510-02	Safron® H106-02NSA	
<b>Physical properties</b>																
MFR (230 °C/2.16 Kg)	ISO 1133	g/10min	40	2.8	90	25	15	7.5	1.4	12	12	5.4	3.3	2.0	2.0	
Density	ISO 1183	g/cm <sup>3</sup>	0.902	0.900	0.900	0.900	0.900	0.900	0.910	0.900	0.900	0.900	0.900	0.900	0.900	
<b>Mechanical properties</b>																
Tensile Strength at Yield	ISO 527	Mpa	28	29	21	20	26	26	26	30	30	34	31	31	35	
Elongation at Yield	ISO 527	%	11	11	5	5	10	8	7	7.5	7.5	8	8.5	8.5	7	
Flexural Modulus	ISO 178	Mpa	1000	900	1050	900	1200	1250	1200	1360	1500	1500	1350	1360	1480	
<b>Impact</b>																
Charpy Notched Impact Strength (23°C)	ISO 179	KJ/m <sup>2</sup>	5	11	6.0	10	12	10.5	13.3	2.3	2.3	4.5	5.8	6.8	6.0	
Charpy Notched Impact Strength (0°C)	ISO 179	KJ/m <sup>2</sup>	2	3	5.0	7	4.6	5.5	7	N/A	N/A	N/A	N/A	N/A	2.2	
Charpy Notched Impact Strength (-20°C)	ISO 179	KJ/m <sup>2</sup>	N/A	N/A	4.2	5.5	6.5	4.4	5	N/A	N/A	N/A	N/A	N/A	N/A	
<b>Thermal</b>																
Heat Deflection Temperature – HDT A (1.8 MPA)	ISO 75/A	°C	47	49	53	50	50	52	52	55	55	57	54	53	55	
Heat Deflection Temperature – HDT B (0.45 MPA)	ISO 75/B	°C	67	70	75	78	90	72	74	83	80	88	78	85	83	
Vicat Softening Point (50N)	ISO 306/B50	°C	70	73	68	66	66	66	71	85	85	90	90	90	90	
<b>Optical</b>																
Clarity	ASTM D1003	%	85	84	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<b>Processes</b>			Injection moulding	Extrusion, blow moulding and thermoforming	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Extrusion and Injection moulding	Extrusion and injection moulding	Injection moulding	Injection moulding	Extrusion	Extrusion, injection and blow moulding	Extrusion and compression moulding
<b>Additive properties</b>			Nucleated, antistatic	Nucleated, UV stabilized	Nucleated, antistatic	Nucleated, antistatic	Nucleated, antistatic	Nucleated, antistatic	Nucleated, antistatic	Nucleated	Standard	Nucleated, slip	Standard	Standard	Standard	Nucleated, slip, antistatic
<b>Application</b>			Thin wall packaging, food and cosmetic containers, aerosol dust covers	Toiletry containers, petroleum jelly jars, high clarity bottles, film for retort applications	Food containers, yoghurt cups, margin tubs, houseware lids, caps and closures	Ice cream and frozen food containers	Crates, boxes, toys, pails, household appliances	Houseware appliances, battery cases and containers	Thin-walled sheet and profile extrusion	High tenacity yarns, fibres, tufted carpets	Houseware and appliances, garden furniture, caps and closures	Caps and closures, domestic ware, slit tapes for woven bags	Slit film tapes, tapes and monofilaments, ropes and twines	Hinged closures, monofilaments, strapping	Carbonated soft drink closures	

N/A = Not available

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