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# Sinkral<sup>®</sup> Product Range Overview

Extrusion and Injection moulding grades

Properties	Test conditions	Test Method	Unit	E 332	F 332	PD L 322	C 442	B 432/E	B 532/E	PD D 232/M4
<b>General</b>										
Density		ISO 1183	g/cm <sup>3</sup>	1,04	1,04	1,04	1,04	1,04	1,04	1,04
Water absorption	24h - 23°C	ISO 62	%	0,3	0,3	0,3	0,3	0,3	0,3	0,3
<b>Mechanical</b>										
Flexural modulus		ASTM D 790	MPa	2200	2250	2350	2300	2300	2300	1550
Flexural strength		ASTM D 790	MPa	62	60	69	65	68	68	40
Tensile strength		ASTM D 638	MPa	40	42	45	43	45	35	27
Strain at break		ASTM D 638	%	75	60	20	45	45	45	100
Izod impact strength (notched)	23°C, thk.3,2 mm	ISO 180/1A	J/m	190	190	170	200	220	280	110
<b>Rheological</b>										
Melt flow rate	220°C - 10 kg	ISO 1133	g/10min	10	14	23	6	4	5	8
<b>Thermal</b>										
Vicat softening temperature	10N-120°C/h	ISO 306/A 120	°C	109	107	99	114	109	109	106
Vicat softening temperature	50N-120°C/h	ISO 306/B 120	°C	104	102	96	108	104	104	101
<b>Flammability</b>										
Flame behaviour	Thickness 1,5 mm	UL 94	class	HB	HB	HB	HB	HB	HB	HB
Glow wire test	Thickness 3 mm	IEC 60695-2-1	°C	650	650	650	650	650	650	650
<b>Main processing technologies</b>				Injection moulding	Injection moulding	Injection moulding	Extrusion and injection moulding	Extrusion	Extrusion	Extrusion
<b>Main features</b>				Medium heat Good flow Good impact	General purpose Self-colouring	Excellent gloss High flow Good impact	High heat Good flow Good impact	Sheets and profiles Medium impact	Sheets and profiles Good impact High stiffness	Very low gloss
<b>Typical Applications</b>				Automotive interiors Tile moulds	Households Small appliances Vacuum cleaners Electrical components	Small and large household Vacuum cleaners Toys Phone Consumer electronics	Automotive industry (for interiors (extruded profiles, trims) and external parts (grilles, rear view mirrors)	Plain or co-extruded sheets with high draw ratios for refrigeration, sanitary, transport and industrial and food packaging sector Furnishing profiles	Plain or co-extruded sheets with high draw ratios for refrigeration, sanitary, transport and industrial and food packaging sector Furnishing profiles	Extrusion and co-extrusion of very low-gloss finished sheets Furnishing profiles

Please consult the relevant technical and safety data sheets for more detailed information.

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info.styrenics@polimerieuropa.com