

Schneider's range of rigid resins are excellent for prototyping or low volume production when ABS would be the intended injection moulding material. The range produces parts that have a very ABS like feel and performance with notably better impact resistance than most polyurethane systems. Surface finishes from gloss to light spark are reproduced exceptionally well. Parts with both thick and thin sections can be produced without sinkage marks. The resins accept colour pigmentation and can be matched to most Pantone or RAL references.



Schneider have developed both UV Stable and V0 rated flame retardant grades of ABS like polyurethane system. The flame retardant resin has been tested to UL94 V0 standards in 3mm wall thickness. Schneider's semi-rigid is used to simulate polypropylene and has very good impact properties. Our range of elastomeric resins are exceptionally durable and ideal keymats, overmoulds and seals.



Thin-RimTM Rigid Resins

	UV Stable	V0 Flame Retardant	ABS Type	Semi-Rigid
Shore Hardness	82° D	82° D	82° D	70° D
Tensile Strength	50 MN/m ²	50 MN/m ²	50 MN/m ²	23 MN/m ²
Elongation at Break	15%	15%	15%	70%
Flexural Modulus	2000 MN/m ²	1700 MN/m ²	1800 MN/m ²	500 MN/m ²
Flexural Strength	60 MN/m ²	60 MN/m ²	60 MN/m ²	20 MN/m ²
Heat Distortion Temperature	70°C	75°C	80°C	44°C
Notched Izod Impact Strength	9 kJ/m ²	9 kJ/m ²	9 kJ/m ²	39 kJ/m ²
Flame Retardance @ 3mm Section	HB	V0	HB	HB
UV Stable	Yes	No	No	No
Pigmentable	Yes	Yes	Yes	Yes

Thin-RimTM Tough Elastomeric Resins

Shore Hardness	45 A	55 A	65 A	75 A	85 A	95 A
Tensile Strength - MN/m ²	18.0	20.0	26.0	34.0	36.0	30.0
Elongation at Break - %	700	650	550	500	480	450
Angular Tear Strength - kN/m	24	33	46	70	90	110

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