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# Royalite® Product Specs

PRODUCT	MATERIAL	DESCRIPTION/APPLICATIONS	SPECIFICATIONS
<b>FLAME AND SMOKE RATED SHEET</b>			
R15	FR ABS	Fire-rated ABS rigid sheet <b>Applications:</b> medical and electronic housings and components	Listed: UL 94 V-0 @ 0.060" Listed: UL 94-5VB @ 0.098"
R24	FR ABS	GP ABS fire-rated rigid sheet <b>Applications:</b> Office machine housings, medical, electronics	Listed: UL 94 HB @ 0.060"
R49/52	PVC/Acrylic	Fire-rated PVC/Acrylic rigid sheet <b>Applications:</b> Building and construction, wall protection	Class-A: ASTM E-84 @ 0.080", bonded to cement board
R503	TPR	Fire-rated TPR flexible sheet <b>Applications:</b> Aircraft interior	Passes FAR 25.853 (a)(ii) @ 0.120"
R52	PVC/Acrylic	Fire-rated PVC/Acrylic rigid sheet <b>Applications:</b> Medical and electronic components and enclosures; aircraft cabin and seat components; mass transit; building and construction	Listed: UL 94 V-0 @ 0.027" Listed: UL 94-5VA @ 0.051" Passes: FAR 25.853 (a)(i) @ 0.040" Class A: ASTM E84 @ 0.028", bonded
R552	PVC/Acrylic	Fire-rated, 100% recycled PVC/Acrylic rigid sheet <b>Applications:</b> Medical and electronic components and enclosures	Listed: UL 94 V-0 @ 0.031" Listed: UL 94-5VA @ 0.094"
R57	PVC/ABS	Fire-rated PVC/ABS rigid sheet <b>Applications:</b> Aircraft cabin and seat components	Passes: FAR 25.853 (a)(ii) @ 0.047"
R574	FR ABS	Fire-rated Non-PVC, FR ABS rigid sheet <b>Applications:</b> Medical and electronic enclosures and components	Listed: UL 94 V-0 @ 0.063" Listed: UL 94-5VA @ 0.125"
R59	PVC/ABS	Fire-rated PVC/ABS rigid sheet <b>Applications:</b> Medical and electronic enclosures and mass transit seat components	Listed: UL 94 V-0 @ 0.085" Listed: UL 94-5VA @ 0.0905"
R559	PVC/ABS	Fire-rated PVC/ABS rigid sheet, 100% recycled <b>Applications:</b> Medical and electronic enclosures	Listed: UL 94 V-0 @ 0.091" Listed: UL 94-5VA @ 0.0905"
R60	PVC/Acrylic	Fire-rated PVC/Acrylic rigid sheet <b>Applications:</b> Aircraft cabin and seat components	Passes: FAR 25.853 (a)(i) @ 0.040"
R61	PVC/Acrylic	Smoke-rated, fire-rated PVC/Acrylic rigid sheet <b>Applications:</b> Mass transit interiors, seats, panels	Passes: Motor Vehicle Standard FMVSS 302 Passes: UL 94 V-0 @ 0.031" Passes: FTA Guidelines Docket 90
R926	PC/ABS	Fire-rated non-PVC rigid sheet <b>Applications:</b> Medical and electronic components and enclosures	Listed: UL 94 V-0 @ 0.059" Listed: UL 94 5VA @ 0.118"
G50	Co-polyester	Fire-rated non-PVC rigid sheet <b>Applications:</b> Building and construction, wall protection	Class-A: ASTM E84 @ 0.060" Passes: ASTM G21
<b>STATIC CONTROL SHEET</b>			
R63	PVC/ABS	Conductive, fire-rated PVC/ABS rigid sheet <b>Applications:</b> Dissipation of electrostatic charges, IC chip carriers, trays and tray dividers	Meets: Static Decay MIL-B-81705C Meets: NFPA Code 99 Listed: UL 94 V-1 @ 0.066" & above Surface resistivity <10 <sup>-5</sup> Ω

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<b>STATIC CONTROL SHEET</b>			
R632	PVC/ABS	Conductive, fire-rated PVC/ABS rigid sheet <b>Applications:</b> Dissipation of electrostatic charges; Protects internal components from ESD in electronics; Container for explosive devices	Meets: Static Decay MIL-B-81705C Meets: NFPA Code 99 Listed: UL 94 V-1 @ 0.058" and above Listed: UL 94 V-0 @ 0.090" and above Surface resistivity <math> < 10^{-5} \Omega </math>
<b>WEATHER RESISTANT SHEET</b>			
R85/21	UV Cap/ABS	Rigid ABS weather-resistant rigid sheet <b>Applications:</b> RV, agricultural equipment, marine parts	Passes: Motor Vehicle Standard FMVSS 302
R86	PVC/Acrylic Alloy	Weatherable, flame-retardant, rigid PVC/Acrylic Alloy <b>Applications:</b> Outdoor equipment, electronic and telecom enclosures	Listed: UL 94 V-0 @ 0.028" and above Listed: UL 94-5VA @ 0.085" and above Passes: Motor Vehicle Standard FMVSS 302
R87/59	PVC/ABS	Economical, weather-resistant, fire-rated rigid sheet <b>Applications:</b> Outdoor equipment, electronic and telecom enclosures	Listed: UL 746C-f1 Listed: UL 94 V-0 @ 0.047" and above Listed: UL 94-5VA @ 0.085" and above
<b>SPECIALTY GRADE SHEET</b>			
HG	PVC/Acrylic	Holster grade sheet <b>Applications:</b> Small to medium handgun holsters, knife sheaths	Easy to form, machine, fasten and bond; durable; range of colors and textures
R26	ABS	FDA- and NSF-compliant <b>Applications:</b> Food handling equipment, trays, boxes and devices	FDA- and NSF-compliant, when requested
R52 AM	PVC/Acrylic	Fire-rated with antimicrobial technology <b>Applications:</b> Building and construction, wall coverings, panels	Listed: UL 94 V-0 @ 0.028" and above Listed: UL 94-5VA @ 0.118" and above Listed: UL 94-5VB @ 0.047" and above Class-A: ASTM E84 @ 0.060" Meets: G-22 for resistance to bacterial growth
R104	ABS	Soft, vinyl foam laminated to ABS <b>Applications:</b> Automotive consoles, dash and door panels	Passes: Motor Vehicle Standard FMVSS 302
<b>GENERAL PURPOSE ABS SHEET</b>			
R12	ABS	High temperature <b>Applications:</b> Automotive housings and panels, food trays, tote boxes	Heat Deflection Temperature (HDT) = 220°F
R20	ABS	High impact, low temperature <b>Applications:</b> Water softener housings, instrument panels, luggage	Notched Izod Impact (ft-lb/in) @ 70° F = 8.0 @ -30° F = 5.0
R21	ABS	High impact <b>Applications:</b> Office furniture, hospital beds, machine guards, housings, bus seating	Excellent, all-purpose thermoforming grade
R23	ABS	Medium impact <b>Applications:</b> Office or patio furniture, specialized cases	Excellent, all-purpose thermoforming grade



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