

ResMart ABS VH-0815 NAT - High flow injection molding grade ABS with a UL 94 5VA flammability rating

Technical Data Sheet Properties

Physical Property	Value	Test Method
Specific Gravity	1.15	ASTM D 792
Melt Flow Rate @ 200°C - 5kg	3.8 g/10 min	ASTM D 1238
Mold Shrinkage	0.34 - 0.41 %	ASTM D 955

Mechanical Property	Value	Test Method
Tensile Strength at Yield	5700 psi	ASTM D 638
Tensile Strength at Break	4000 psi	ASTM D 638
Tensile Modulus	290,000 psi	ASTM D 638
Tensile Strain at Break	17 %	ASTM D638
Flexural Strength	8500 psi	ASTM D 790
Flexural Modulus	310,000 psi	ASTM D 790
Notched Izod Impact (0.25in)	4.6 ft-lbs/in	ASTM D 256
Rockwell Hardness (R-Scale)	100	ASTM D 785

Thermal Property	Value	Test Method
HDT (1/4", 264 psi)	171 °F	ASTM D 648
Vicat Softening Temp (50°C/HR)	86 °C	ISO R306B
Flammability @ 1.5mm	V-1	UL 94
Flammability @ 2.0mm	5VB	UL 94
Flammability @ 2.5mm	5VA	UL 94

Processing Guidelines	Value
Drying Temperature	180 °F
Drying Time	2 - 4 Hours
Melt Temperature	420 - 460 °F
Mold Temperature	100 - 180 °F
Injection Pressure	10 - 20 psi

The information provided on this datasheet should only be used as a guideline. Actual lot to lot values will vary.

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