RC-178H

ABS High-Rubber Powder for ABS Alloy Systems

TECHNICAL DATA SHEET TDS | Rev. 2026-10-02

Product Description

RC-178H is an ABS high-rubber powder for ABS alloy systems including PC/ABS, PA/ABS, PMMA/ABS and PBT/ABS. The source positions the grade for alloy systems processed at relatively high temperature, with emphasis on retaining impact and tensile performance. Typical application fields include automotive parts, electronic housings and water-filter housings.

Formulation-Specific Comparison

Test formulation: PC / SAN / High-Rubber Powder / 1076 / Lubricant = 65 / 25 / 10 / 0.5 / 0.5
Processing temperature: 240-260°C
Reference: Kumho HR-181

Property	Method / Condition	HR-181	RC-178H
Notched Izod	ASTM D256; 23°C	645 J/m	660 J/m
Tensile strength	ASTM D638; 50 mm/min	56.8 MPa	55.7 MPa
Elongation	-	104.8%	118.7%
Flexural strength	ASTM D790; 2 mm/min	92.01 MPa	91.89 MPa
Flexural modulus	-	2692	2688
Vicat	ASTM D1525; 50 N, 50°C/h	117.8°C	117.5°C
HDT	ASTM D648; 1.8 MPa	97.6°C	97.5°C
MFR	ASTM D1238; 260°C, 5 kg	17.16 g/10 min	17.45 g/10 min
L	Color value	89.36	90.32
a	Color value	-1.48	-1.61
b	Color value	8.04	7.72

The comparison above is specific to the stated formulation and conditions. It supports technical evaluation against Kumho HR-181 but does not imply chemical identity or guaranteed replacement.

Application Positioning

Area	Source-Supported Positioning
Resin systems	PC/ABS, PA/ABS, PMMA/ABS, PBT/ABS
Performance focus	Impact performance and heat resistance in higher-temperature alloy processing
Example end uses	Automotive parts, electronic housings, water-filter housings

Evaluation Note

RC-178H should be validated in the customer's actual alloy system. Resin grade, SAN composition, stabilizers, fillers, pigments and processing history can materially affect the final balance of impact, tensile, thermal and flow properties.

Packaging

Item	Information
Standard packaging	20 kg/bag

Other commercial conditions should be confirmed in the current quotation; they are not inferred in this TDS.

Qualification & Disclaimer

Application-test data in this document are formulation-specific. They do not constitute a universal product specification, guaranteed equivalence, or finished-part performance warranty. Customers should qualify the material in their own resin grade, formulation, processing conditions and finished-part requirements.

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