RC-158

Composite-Particle-Size ABS High-Rubber Powder

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

Product Description

RC-158 is a composite-particle-size ABS high-rubber powder. The source positions it for electroplating-grade ABS and ABS alloy resins, with example uses in automotive parts, electrical/electronic components and home-appliance parts.

ABS System Test

Test formulation: SAN (LG80HF) / ABS High-Rubber Powder = 75 / 25
Reference: Kumho HR-150F

Property	Condition	HR-150F	RC-158
Notched Izod	23°C	165 J/m	141 J/m
Yield strength	50 mm/min	46.4 MPa	47.0 MPa
Tensile strength	-	35.8 MPa	34.4 MPa
Elongation	-	44.1%	43.8%
Flexural strength	2 mm/min	74.5 MPa	73.6 MPa
Flexural modulus	-	2760	2722
MFR	220°C, 10 kg	17.58	16.79
Vicat	50 N, 50°C/h	94.0°C	93.6°C
HDT	1.8 MPa, 120°C/h	76.5°C	76.8°C
HDT	0.45 MPa, 120°C/h	88.6°C	87.8°C
Gloss	20° / 60° / 85°	57 / 89 / 99	57 / 89 / 99
Yellow Index	-	31.59	31.77

PC/AS Alloy Test

Test formulation: PC / SAN / ABS High-Rubber Powder = 65 / 25 / 10
Reference: Kumho HR-150F

Property	Condition	HR-150F	RC-158
Notched Izod	23°C	651 J/m	661 J/m
Notched Izod	-30°C	150 J/m	162 J/m
Yield strength	50 mm/min	60.01 MPa	59.98 MPa
Tensile strength	-	49.86 MPa	55.23 MPa
Elongation	-	103.48%	118.12%
Flexural strength	2 mm/min	101.1 MPa	99.6 MPa
Flexural modulus	-	2958	2951
MFR	260°C, 5 kg	16.81	16.18
Vicat	50 N, 50°C/h	119.9°C	120.9°C
HDT	1.8 MPa, 120°C/h	92.9°C	93.9°C
HDT	0.45 MPa, 120°C/h	119.7°C	120.8°C

The source also includes a 260°C heat-retention comparison at 0, 10 and 20 minutes. The results above and those heat-retention data are formulation-specific and should be revalidated in the customer's own system.

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.

RC Polymer Solutions | China www.mbs-acr.com frank@mbs-acr.com WhatsApp +86 155 6437 2631