RC-701

MBS Core-Shell Impact Modifier for PC & PC/ABS

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

Product Description

RC-701 is an MBS core-shell impact modifier for engineering plastic systems. Available technical data cover its use in polycarbonate (PC) and PC/ABS alloy formulations. The product should be qualified in the customer's own resin grade, formulation, processing equipment and finished-part requirements.

Series Reference Specification

Property	Series Reference
Appearance	White free-flowing powder
Passing 20 mesh	>= 90.0%
Volatile content	<= 1.0%
Bulk density	0.20 - 0.70

These are series-level reference specifications from the available technical source and are not presented as an individual batch COA for this grade.

PC Application Performance

Test formulation: PC-110 / Impact Modifier = 95 / 5

Property	RC-701
Izod impact, 23°C (J/m)	734
Izod impact, -30°C (J/m)	630
Tensile strength (MPa)	66.1
Elongation at break	117.7%
Flexural strength (MPa)	95.8
Flexural modulus (MPa)	2449
HDT, 1.8 MPa (°C)	118.4
Vicat, 50 N / 50°C/h (°C)	139.1
MFR, 300°C / 1.2 kg (g/10 min)	9.5
L	90.07
a	-1.36
b	2.99
Yellow Index	3.16

Application-test results are formulation-specific and are not universal guaranteed product properties.

PC/ABS Application Performance

Test formulation: PC / ABS / Impact Modifier / PETS / 1010 = 85 / 10 / 4.5 / 0.3 / 0.2

Property	RC-701
Izod impact, 23°C (J/m)	679
Izod impact, -30°C (J/m)	542
Tensile strength (MPa)	60.5
Elongation at break	107.6%
Flexural strength (MPa)	97.1
Flexural modulus (MPa)	2644
HDT, 1.8 MPa (°C)	109.3
Vicat, 50 N / 50°C/h (°C)	134.1

The formulation names and ratios above follow the available technical source. Results should be revalidated in the customer's own PC/ABS system.

Applications

PC impact modification; PC/ABS impact modification; engineering-plastic impact-modification evaluation.

Packaging & Supply

Packaging	20 kg/bag; PE inner liner + PP woven outer bag
MOQ	1 MT
Sample	5 kg free sample; customer pays freight
Lead time	7-10 days after order, before shipment/loading
Main export port	Qingdao, China
Container reference	20GP: 14 MT / 700 bags; 40GP: 24 MT / 1,200 bags

Safety & Handling

Refer to the current engineering-plastics MBS SDS for complete handling, storage and safety information. Avoid dust inhalation and static accumulation; store away from ignition sources and excessive heat.

Technical Note

A current product-specific COA should be requested for shipment-level quality data. Application results in this TDS are intended for material evaluation and do not constitute a performance warranty.

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