RC-768

Impact Modifier for Transparent Styrenic / PMMA-SAN Systems

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

Product Description

RC-768 is an MBS core-shell impact modifier for styrenic copolymer systems. The available technical source focuses on transparent PMMA/SAN blends, also described in the source as transparent ABS-type formulations. Product positioning emphasizes suitable refractive-index behavior, particle distribution, processability and impact modification.

Application Scope

Transparent PMMA/SAN blends; transparent ABS-type formulations; impact-modification evaluation where transparency retention is part of the formulation target.

Transparent PMMA/SAN Application Tests

Application tests are available at **20%, 25% and 28%** addition levels. Optimum dosage depends on the resin system and target properties. These test levels are not a universal recommended dosage range.

Property	40/40/20	37.5/37.5/25	36/36/28
Izod impact, 23°C (J/m)	113	179	200
Tensile strength (MPa)	51.8	49.08	45.5
Elongation at break (%)	53.9	28.98	27.81
Flexural strength (MPa)	80.6	77.9	71.2
Flexural modulus (MPa)	2748	2777	2443
MFR, 220°C / 10 kg	23.2	20.67	19.53
HDT, 1.8 MPa (°C)	72.8	71.2	70.2
HDT, 0.45 MPa (°C)	87.0	86.1	84.8
Vicat, 50 N / 50°C/h (°C)	93.9	89.8	87.5

Formulations shown are PMMA/SAN/RC-768 = 40/40/20 and AS/PMMA/RC-768 = 37.5/37.5/25 and 36/36/28, following the available source terminology.

Optical Results

Property	20% test	25% test	28% test
L	95.27	94.99	95.02
a	-0.42	-0.61	-0.63
b	3.02	3.84	4.02
Haze	4.43	4.31	4.38
Light transmittance	87.03	86.12	86.13
Yellow Index	5.45	6.81	7.12

Mechanical, flow, thermal and optical results all change with formulation. Selection should therefore balance impact, transparency, flow and thermal requirements in the customer's actual system.

Comparable-Grade Evaluation

Comparable-grade discussions for transparent styrenic applications should be treated as technical evaluation only. No claim of chemical identity, guaranteed equivalence or drop-in replacement to a third-party grade is made in this TDS.

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

Technical Documents

Request the current product specification, current batch COA, SDS and transport documentation as required for qualification or shipment.

Disclaimer

This TDS summarizes available application-test evidence. Test results are formulation-specific and do not constitute a universal product specification or finished-part performance warranty.

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