

Product

acrylonitrile butadiene styrene (ABS)

granulate / powder

938-853 material spec

UL94-HB flammability rating

Material safety data

complies with:

- Directive 91/155/EEC

- ISO 11014-1

Issued: February 1996

Replaces issue: July 1993

Granulate ¹⁾

Powder

1. Chemical product and company identification

1.1 Chemical product name	Ronfalin*
Product code	ABS
Chemical name	acrylonitrile butadiene styrene copolymer

1.2 Manufacturer	DSM Performance Polymers B.V. P.O. Box 43 6130 AA SITTARD The Netherlands
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1.3 Emergency telephone number	The Netherlands Tel. +31 (0) 46 476 55 55
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2. Composition information on ingredients

This chemical product is a
preparation:

common chemical name	acrylonitrile butadiene styrene copolymer
formula	n/a

generic name	engineering plastics
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CAS number	9003-56-9
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synonym(s)	ABS
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ingredients contributing to the hazard	the material may contain traces of monomeric substances of acrylonitrile and butadiene. However, air exposure levels during storage conditions are well below presently accepted standards and present no hazard.
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*The name is a trademark of DSM

1) Applies to both granulate and powder unless
different or additional data are given for
powder only



ABS grade 103 plastic material



Benfalin acrylonitrile butadiene styrene copolymer (ABS) granulate / powder

		<i>Test methods</i>	
		ISO	DIN
Properties			
<u>Mechanical Properties</u>			
Charpy notched impact strength:		179/2c	53453
at +23 deg C	10 Kj/sq metre		
at +20 deg C	7 Kj/sq metre		
ISO notched impact strength:		180/3A	---
at +23 deg C (thickness 6.4mm)	11 Kj/sq metre		
at +20 deg C (thickness 6.4mm)	6 Kj/sq metre		
Charpy test:		R527/1C	53455-3-5
tensile strength at yield	40 N/sq.mm		
elongation at yield	4%		
Flexural test:		178B	
flexural strength	70 N/sq.mm		53452
modulus in flexure	2400 N/sq.mm		---
Surface hardness:			
Shore D hardness	103R	2039/2	
Rockwell indentation hardness	90 N/sq.mm	2039/1	53456
<u>Thermal Properties</u>			
Heat Deflection Temperature:		75/A	53461/A
unannealed	80 deg. C		
annealed	86 deg. C		
Heat softening temperature	86 deg. C	306/B50	53460
Flammability properties	UL94-HB	UL94	
<u>Physical Properties</u>			
Density	1220 Kg/sq.metre	1183/A	53479
Melt flow index	55 dg/min	1133/19	53735/U
Gloss	59	---	67530
Processing temperatures	200-230 deg C	---	---

Manufacturer : D.S.M. Polymers B.V.
PO Box 43
6130 AA SITTARD
The Netherlands

BCL

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