

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 <sup>1)</sup>

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
1.3. Emergency telephone number	The Netherlands Tel. +31 (0) 46 476 55 55

## 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
CAS number	9003-56-9
synonym(s)	ABS
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.

\*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



Acrylonitrile butadiene styrene copolymer (ABS) granulate / powder

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

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

# BCL

BRADFORD CONSULTANTS LTD

**BCL DISTRIBUTION**

5th Avenue, Hornbeam Park, Hookstone Road,  
 Harrogate, North Yorkshire, HG2 8QT

Tel : +44 01423 879787 Fax: +44 01423 879030