
**Extruded sheets of impact-modified
polystyrene (PS-I) — Requirements
and test methods**

*Plaques extrudées en polystyrène modifié résistant au choc (PS-I) —
Exigences et méthodes d'essai*

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ISO 14631:2021](https://standards.itih.ai/catalog/standards/iso/91ddd11f-dc1b-4deb-9e2c-7400acf301ac/iso-14631-2021)

<https://standards.itih.ai/catalog/standards/iso/91ddd11f-dc1b-4deb-9e2c-7400acf301ac/iso-14631-2021>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO 14631:2021](https://standards.iteh.ai/catalog/standards/iso/91ddd11f-dc1b-4deb-9e2c-7400acf301ac/iso-14631-2021)

<https://standards.iteh.ai/catalog/standards/iso/91ddd11f-dc1b-4deb-9e2c-7400acf301ac/iso-14631-2021>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Material	2
5 Requirements	2
5.1 Appearance	2
5.2 Dimensional tolerances	2
5.2.1 Thickness	2
5.2.2 Length and width	2
5.2.3 Rectangularity	3
5.2.4 Bow of sheets in rolled form	3
5.3 Properties	3
5.3.1 General	3
5.3.2 Mechanical and thermal properties	4
5.3.3 Behaviour after heating	4
5.3.4 Physiological behaviour	5
6 Test methods	5
6.1 Test specimens	5
6.1.1 Preparation of test specimens	5
6.1.2 Conditioning	5
6.1.3 Testing	5
6.2 Delivery condition	5
6.3 Appearance	5
6.4 Dimensions	6
6.4.1 Thickness (<i>h</i>)	6
6.4.2 Length (<i>l</i>) and width (<i>b</i>)	6
6.4.3 Rectangularity	6
6.4.4 Bow of sheets in rolled form	6
6.5 Density	6
6.6 Mechanical properties	6
6.6.1 Tensile stress at yield (σ_Y)	6
6.6.2 Nominal tensile strain at break (ϵ_{TB})	6
6.6.3 Modulus of elasticity in tension (E_T)	6
6.6.4 Charpy impact strength of unnotched specimens (a_{CU})	7
6.6.5 Charpy impact strength of notched specimens (a_{CN})	7
6.6.6 Multiaxial impact strength	7
6.6.7 Ball indentation hardness	7
6.7 Thermal properties	7
6.7.1 Vicat softening temperature	7
6.7.2 Determination of shrinkage after heating	7
7 Designation	9
7.1 Example for PS-I-sheets	9
7.2 Example for PS-I sheets in roll form	9
8 Marking	9
Annex A (informative) Additional guide values	10
Bibliography	11