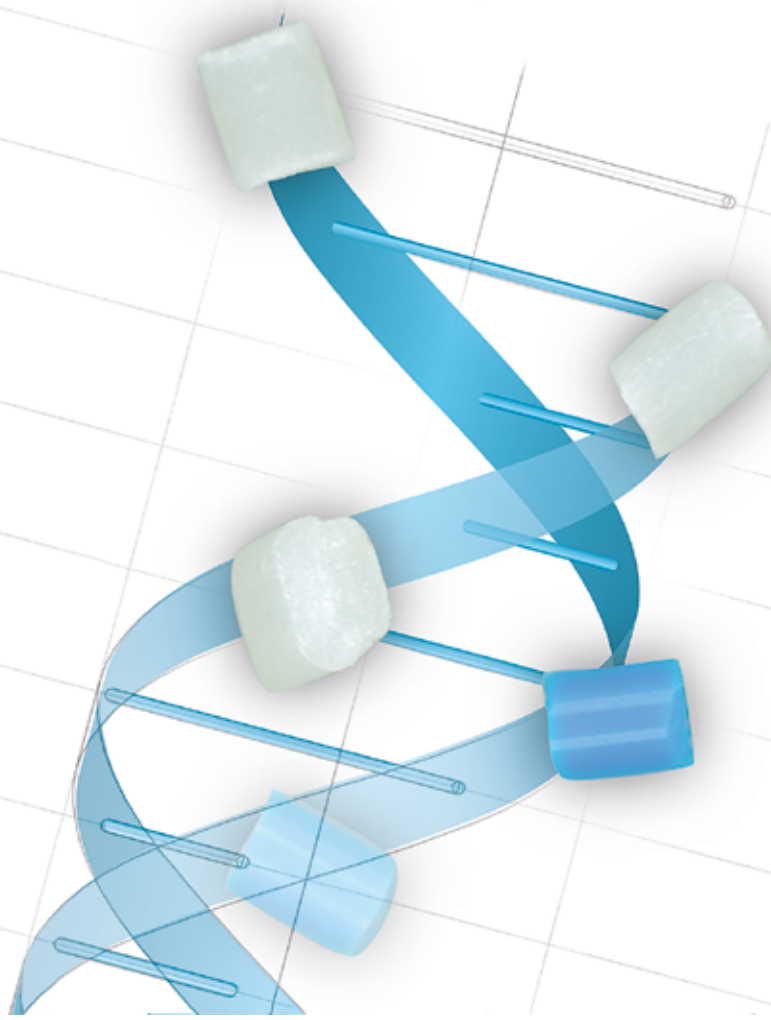
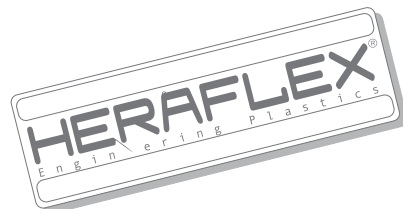


HERAFLEX®E
thermoplastic
polyester elastomer





HERAFLEX® E thermoplastics polyester elastomers



Heraflex® E is an engineering thermoplastic elastomer, which combines the strength and processing characteristics of engineering plastics with the performance of thermoset elastomers. The most remarkable features: exceptional toughness and resilience, high resistance to creep, impact and flexural fatigue; flexibility at low temperatures and good retention of properties at elevated temperatures; good chemical resistance. All type of Heraflex® E can be processed according the technologies in use for plastics material: injection moulding, extrusion, blow moulding, rotational moulding.

Properties

	Standard	Test condition	Unit	HERAFLEX® E 3918	HERAFLEX® E 4718	HERAFLEX® E 5620	HERAFLEX® E 6521	HERAFLEX® E 7722		
Rheological	MELT FLOW INDEX	ISO 1133	230°C 2.16kg	g/10min	34	34	20	23	19	
			Instantaneous		39	47	56	65	77	
Mechanical	HARDNESS DUROMETER D	ISO 868	15 s	Shore D	35	43	50	57	69	
	TENSILE STRENGTH AT BREAK	ISO 527-1/2	23°C	MPa	26	34	43	49	50	
	ELONGATION AT BREAK	ISO 527-1/2	23°C	%	968	792	688	634	500	
	FLEXURAL MODULUS	ISO 178/1A	23°C	MPa	59	214	221	342	828	
	TEAR STRENGTH	ASTM D1004		N/mm	113	142	174	241	249	
	ABRASION RESISTANCE	DIN 53516		mm ³	26	19	15	20	39	
	IZOD NOTCHED IMPACT STRENGTH	ASTM D256	23°C	J/m	No break	No break	No break	No break	300	
	Thermal	MELTING TEMPERATURE	ISO 11357-1	DSC (10°C/min)	°C	180	185	199	210	220
		VICAT SOFTENING POINT A/50	ISO 306	50°C/h 50N	°C	128	149	177	195	211
	Physical	DENSITY	ISO 1183		g/cm ³	1.12	1.16	1.19	1.23	1.25
WATER ABSORPTION		MI / 08	23°C x 24h	%	0.73	0.45	0.29	0.20	0.10	

Nomenclature

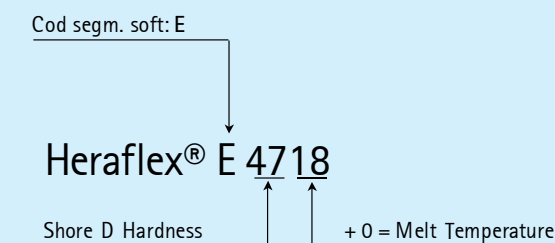


Fig. 1 Nomenclature

Behaviours

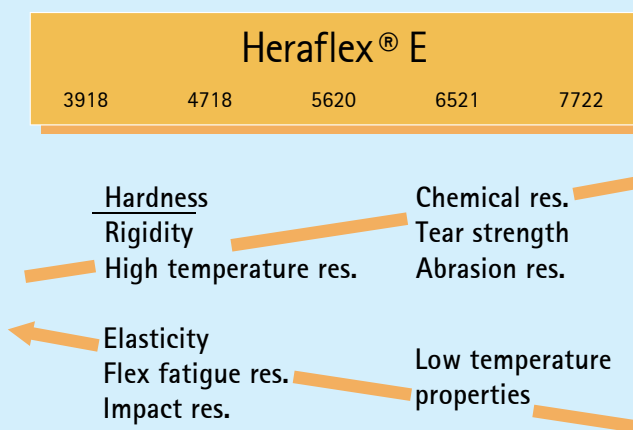


Fig. 2 Behaviours

Heraflex® E Hardness & Module

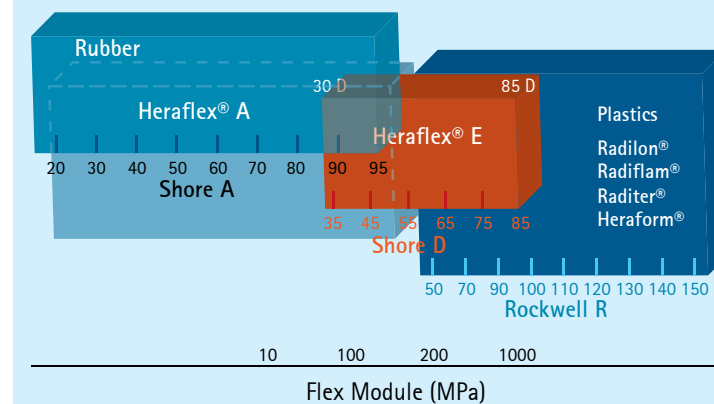


Fig.3 Hardness & Module

The technical data above is purely indicative and is not a guarantee. The data should not be considered as specifications. Any modification of or addition to the material after it is supplied may cause a change in the values or technical properties. The values are calculated for injection-moulded samples.

RADICI NOVACIPS SpA
Via Bedeschi, 20 – 24040 Chignolo d'Isola (BG) – I
Tel. +39 035 4991311 – Fax +39 035 994386
e-mail: italia.plastics@radicigroup.com

RADICI NOVACIPS SpA
Via Provinciale, 1331 – 24020 Villa d'Ogna (BG) – I
Tel. +39 0346 22453 – Fax +39 0346 23730
e-mail: italia.plastics@radicigroup.com



RADICI PLASTICS

RADICI PLASTICS GmbH
Glockengiesserwall 2 – 20095 Hamburg – D
Tel. +49 40 3095410 – Fax +49 40 30954199
e-mail: deutschland.plastics@radicigroup.com
Production:
Elso-Klöver-Strasse, 10 – Industriegebiet Hafen
21337 Lüneburg – D

RADICI PLASTICS IBERICA SL
Avda. Josep Tarradellas, 130 5ª 1ª
08029 Barcelona – ES
Tel. +34 93 5416500 – Fax +34 93 4943326
e-mail: iberica.plastics@radicigroup.com

RADICI PLASTICS UK Ltd.
High Hill House, 6A Hampstead High Street
London NW3 1PR – UK
Tel. +44 20 74314554 – Fax +44 20 74314544
e-mail: uk.plastics@radicigroup.com

RADICI PLASTICS FRANCE SA
65, Rue du Dauphiné – 69800 St. Priest – F
Tel. +33 4 72782090 – Fax +33 4 72782089
e-mail: france.plastics@radicigroup.com

RADICI PLASTICS B.V.
Verloren Van Themaatweg 9 – 6121RG, Born – NL
Tel. +49 40 3095410 – Fax +49 40 30954199
e-mail: deutschland.plastics@radicigroup.com

RADICI PLASTICS LTDA
Rua Giuseppe Marchiori, 497
CEP 18147-970 Araçariquama – São Paulo – BR
Tel. +55 11 4136 6500 – Fax +55 11 4136 2166
e-mail: brasil.plastics@radicigroup.com

RADICI PLASTICS USA Inc.
960 Seville Road, Wadsworth, OH 44281 – USA
Tel. +1 330 3367611 – Fax +1 330 3362143
e-mail: usa.plastics@radicigroup.com

RADICI PLASTICS (Suzhou) CO., LTD.
No. 49 Ping Sheng Road, SIP
215126 Suzhou, Jiangsu Province – PR China
Tel. +86 512 62952290 – Fax +86 512 62952291
e-mail: china.plastics@radicigroup.com

RADICI PLASTICS INDIA PRIVATE LIMITED
DSM-501, 5th Floor, DLF Tower,
Shivaji Marg, New Delhi – 110015 – IN
Tel. +91 11 41638170
e-mail: info.plastics@radicigroup.com

RADICI PLASTICS MEXICO S. DE R.L. DE C.V.
Av. Francisco Zarco 2688
C.P. 47810 – Col. Loma Bonita – Ocotlán Jalisco – MX
Tel: +52 392 923 2390
e-mail: info.plastics@radicigroup.com

The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience become available. The data provided falls within the normal range of product properties and relates only to the specific material designated; this data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits nor used alone as the basis of design; it is not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since Radici Plastics cannot anticipate all variations in actual end-use conditions Radici Plastics makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights.

Le informazioni contenute in questo documento sono fondate sulla base delle migliori conoscenze in nostro possesso al momento della pubblicazione. Queste informazioni sono soggette a revisioni a seguito dell'ottenimento di nuove conoscenze ed esperienze. I dati forniti corrispondono alla gamma normale di proprietà materiali e si riferiscono solo al materiale specificato: i dati potrebbero non essere validi per gli stessi materiali utilizzati in combinazione con altri materiali o additivi, o altri processi non specificati. I dati forniti non devono essere utilizzati al fine di stabilire valori di specifiche, né utilizzati da soli per la progettazione. Non si intendono come una sostituzione per gli esperimenti che dovrete effettuare per determinare l'adattabilità dei nostri prodotti all'uso specifico al quale li avete destinati. Dato che non è possibile per Radici Plastics prevedere ogni variazione nell'utilizzo finale dei nostri prodotti, Radici Plastics non fornisce alcuna garanzia, né assume alcuna responsabilità concernente l'utilizzo di queste informazioni. La presente pubblicazione non può essere in alcun modo interpretata come una licenza d'uso né come una istigazione a violare brevetti esistenti.