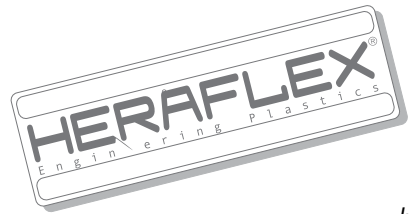


HERAFLEX®E
thermoplastic
polyester elastomer





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
	HARDNESS DUROMETER D	ISO 868	Instantaneous	Shore D	39	47	56	65	77
15 s			35		43	50	57	69	
Mechanical	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
	MELTING TEMPERATURE	ISO 11357-1	DSC (10°C/min)	°C	180	185	199	210	220
Thermal	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

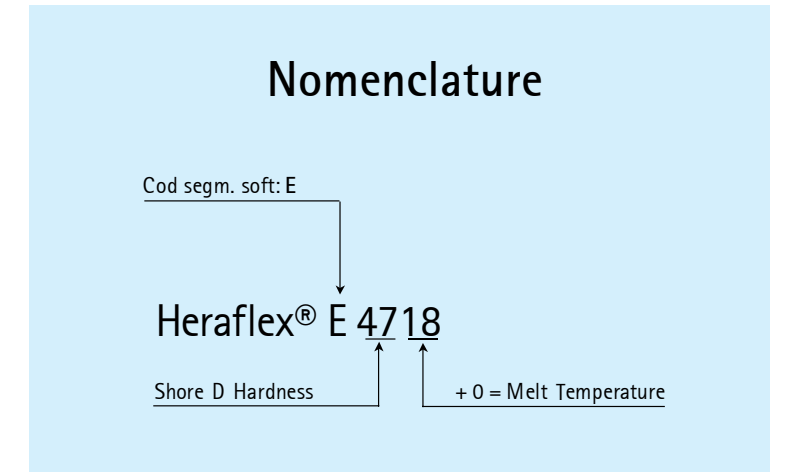


Fig. 1 Nomenclature

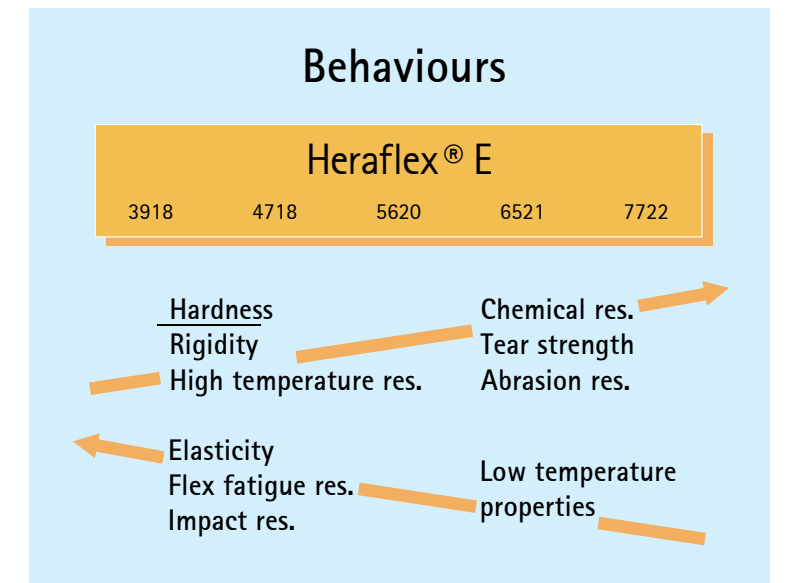


Fig. 2 Behaviours

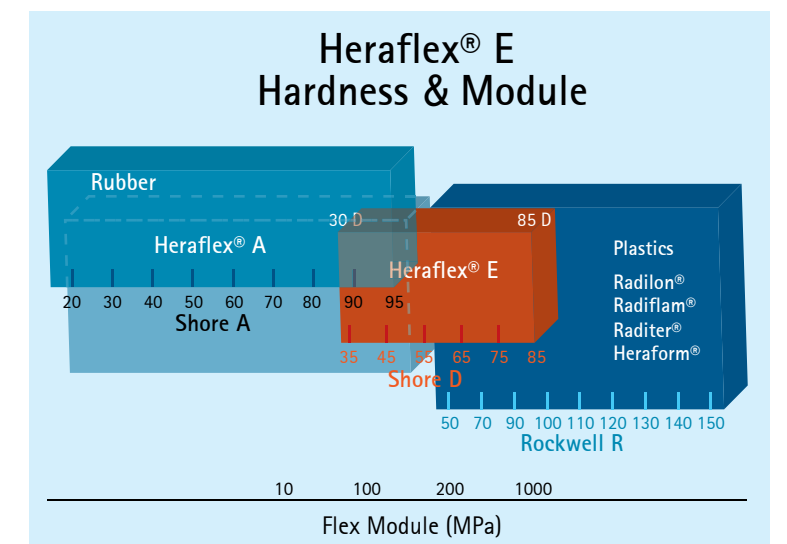


Fig.3 Hardness & Module

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.

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