

# Stanyl<sup>®</sup> HGR3–W

## PA46

Heat Stabilized, PFAS–free, Wear and Friction Modified

Print Date: 2026–06–05

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>RHEOLOGICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Molding shrinkage [parallel]	2 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	2 / *	%	Sim. to ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Tensile modulus	2500 / 700	MPa	ISO 527–1/–2
Tensile modulus (120°C)	560 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	420	MPa	ISO 527–1/–2
Yield stress	75 / –	MPa	ISO 527–1/–2
Nominal strain at break	35 / –	%	ISO 527–1/–2
Nominal strain at break (120°C)	>50	%	ISO 527–1/–2
Nominal strain at break (160°C)	>50	%	ISO 527–1/–2
Stress at break	– / 60	MPa	ISO 527–1/–2
Stress at break (120°C)	45 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	33	MPa	ISO 527–1/–2
Flexural modulus	2350 / 650	MPa	ISO 178
Flexural strength	93 / 19	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	22 / 130	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	14 / 16	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357–1/–3

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Temp. of deflection under load (1.80 MPa)	75 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	240 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.9 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.1 / *	E–4/°C	ISO 11359–1/–2
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Humidity absorption	3.7 / *	%	Sim. to ISO 62
Density	1140 / –	kg/m <sup>3</sup>	ISO 1183

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