

P11 - HPU MDx blue

thermoplastic polyurethane with resistance to hydrolysis

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				blueish		blueish
hardness	23°C/3 sek.	ISO 868	Shore A	95 ± 2	Shore A	95 ± 2
hardness	23°C/3 sek.	ISO 868	Shore D	46 ± 3	Shore D	46 ± 3
hardness	23°C/15 sek.	ISO 868	Shore D		Shore D	
modulus 100%	23°C	DIN 53 504	MPa	≥ 15	psi	≥ 2175
modulus 300 %	23°C	DIN 53 504	MPa	≥ 28	psi	≥ 4160
tensile strength		DIN 53 504	MPa	≥ 45	psi	≥ 6525
elongation at break	23°C	DIN 53 504	%	≥ 340	%	≥ 340
tear strength	23°C	DIN ISO 34-1	kN/m		lbf/inch	
spec. gravity	23°C	ISO 1183	kg/m ³	1240	g/cm ³	1,24
abrasion		DIN 53 516	mm ³		mm ³	
compression set	*	ISO 815	%	≤ 30	%	≤ 30
compression set	**	ISO 815	%	≤ 38	%	≤ 38
minimum service temperature			°C	-20	°F	-4
maximum service temperature			°C	90	°F	194

* 24h 70°C 25% def. ** 24h 100°C 25% def. *** 24h 150°C 25% def.