

H-PU57D MDI MoS₂
 Mechanical, Physical and Thermal Properties

 thermoplastic polyurethane with
 resistance to hydrolysis - Mokka MDI

properties	condition	standard	unit		unit	
colour				grey		grey
hardness	20°C	DIN 53 505	Shore A		Shore A	
hardness	20°C	DIN 53 504	Shore D	57 ± 3	Shore D	57 ± 3
modulus 100%	20°C	DIN 53 504	MPa	≥ 13	psi	≥ 1885
modulus 300%	20°C	DIN 53 504	MPa	≥ 25	psi	≥ 3626
tensile strength	20°C	DIN 53 504	MPa	≥ 45	psi	≥ 6526
elongation at break	20°C	DIN 53 504	%	≥ 310	%	≥ 310
tear strength	20°C	DIN 53 515	kN/m	≥ 120	lbf/inch	≥ 605
spec. gravity	20°C	ISO 1183	kg/m ³	1170	g/cm ³	1,17±0,03
compression set	*	ISO 815	%	≤ 25	%	≤ 25
compression set	**	ISO 815	%	≤ 30	%	≤ 30
minimum service temperature			°C	-30	°F	-22
maximum service temperature			°C	125	°F	257

* 24h 70°C 25% def.

** 24h 100°C 25% def.

Chemical Properties

hydrolyse Polyurethane with system MDI and a little part of MoS₂
 Resistant to oil, hot water, hot air, ozone, synthetic and native esters, low acids
 Not resistant to "conc. Acids", conc. lyes, conc. alcohols and aromatic solvents
 Foodstuff approval: no
 P-resistance: max. 600bar