

## HIPEX® HX7IDZ (Series: HTR/OR)

### KRAIBURG TPE - Thermoplastic Elastomer

#### General Information

##### Product Description

The HTR/OR series is your material solution for applications requiring temperature and oil resistance. The compounds are available in black and natural colors. Natural colored variants can be colored in many different ways.

##### Typical applications

- Seals
- Flexible Connections
- Fastenings
- Closures
- Bumpers
- Mechanical components
- Seals for housings

##### Material advantages

- Resistance to engine and gear oils
- Resistance to grease and oils
- Temperature stability up to 150 °C
- In-process recycling possible
- Thermoplastic alternative to elastomers
- Adhesion to PBT
- Oil resistant TPV

##### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Latin America	• North America
	• Europe	• Grease Resistant	• Recyclable Material
Features	• Good Adhesion	• Oil Resistant	
	• Good Thermal Stability		
Uses	• Automotive Bumper	• Connectors	• Seals
	• Closures	• Fasteners	
Appearance	• Black		
Processing Method	• Injection Molding		

#### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup> (Break)	870	psi	ISO 37
Tensile Elongation <sup>2</sup> (Break)	300	%	ISO 37
Tear Strength <sup>3</sup>	108	lbf/in	ISO 34-1
Compression Set <sup>4</sup>			ISO 815
212°F, 24 hr	57	%	
248°F, 24 hr	62	%	
302°F, 24 hr	80	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	70		ISO 48-4
Additional Information	Nominal Value	Unit	Test Method
Adhesion to PBT <sup>5</sup>	24	lbf/in	VDI 2019

