

# KUMHO KTR<sup>®</sup> 101

## Technical Data Sheet

### | Product Description |

KUMHO KTR<sup>®</sup> 101 polymer is a linear block copolymer based on styrene and butadiene with bound styrene of 31.5% mass. It is supplied in two physical forms, identified as follows in the grade nomenclature:

- KTR 101 supplied as porous pellets
- KTR 101P supplied as powder

### | Typical Properties |

Property	Value
Molecular structure	Linear (S-B) X 2
Physical form	Porous pellet / Powder
Styrene content (wt%)	31.5
Volatile matter (wt%)	0.5
Ash content (wt%)	0.08
Solution viscosity at 25°C, 25wt% in toluene (cps)	4,500
Tensile strength (kg <sub>f</sub> /cm <sup>2</sup> )	310
Elongation (%)	800
Tensile modulus at 300% (kg <sub>f</sub> /cm <sup>2</sup> )	26
Hardness, shore A / 5 sec (degree)	77
Melt flow index at 200°C, 5kg (g /10min)	max. 1
Specific gravity	0.94
Extended oil content (wt%)	0
Application	Bitumen modifier Plastic modifier Adhesives Footwear

\* The above data is typical, therefore there may be a slight difference from the physical properties of the supplied product.

## | Characteristics |

Fields	Characteristics
<b>Bitumen modifier</b> - road paving - roofing sheets	<ul style="list-style-type: none"> <li>• Increase softening point of bitumen</li> <li>• Reduce the sensitivity to temperature change</li> <li>• Improve low temperature flexibility</li> <li>• Improve elasticity and impact resistance</li> <li>• Extend life span of pavement</li> </ul>
<b>Plastic modifier</b>	<ul style="list-style-type: none"> <li>• Increase elasticity and impact property</li> <li>• Improve abrasion resistance</li> <li>• Reprocessable</li> </ul>
<b>Adhesives</b> - solvent based	<ul style="list-style-type: none"> <li>• Excellent low temperature flexibility</li> <li>• Easy to be dissolved in various solvents</li> </ul>
<b>Footwear</b>	<ul style="list-style-type: none"> <li>• Increase elasticity</li> <li>• Good colorability</li> <li>• Excellent low temperature flexibility</li> </ul>

## | Package |

CAS NO	Packing unit (kg)	
	Paper bag (Pallet)	Jumbo bag
9003-55-8	15 (600)	200, 400, 450, 500, 1000

## | Handling Precaution |

The direct exposure to sunlight, heat, and humidity may cause discoloration or deterioration.

Keep the product away from sunlight, humidity, and chemicals, and store in cool and dry places below 35°C.