



## Koattro KT AR05

### Advanced Polyolefin

#### Product Description

**Koattro KT AR05** is a novel plastomeric material based on LyondellBasell technology with unique characteristics.

The product shows an excellent compression set performance which is highly compatible with Polypropylene.

Blended with PP it enhances softness, elastic recovery, elongation at break and impact resistance whilst improving transparency and reducing stress whitening. Blended at low concentrations in PP, **Koattro KT AR05** enhances also the thermal bonding strength.

**KT AR05** is available in free flowing pellet form.

This product is not intended for use in medical and pharmaceutical applications.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
<b>Processing Methods</b>	Compression Molding, Blown Film, Calendering, Cast Film, Continuous Filament/Spinning, Extrusion Compression Molding, Injection Molding, Spun Bond
<b>Features</b>	Excellent Elastic Recovery , High Elasticity, Low Temperature Flexibility, Medium Flow, Foamable, Good Melt Strength , Good Processing Stability, Superior Sealing Strength, Weldable
<b>Typical Customer Applications</b>	Appliances, Automotive Parts, Coatings, Protective, Colour Concentrates, Exterior Applications, Industrial, Other Industrial, Polymer modifier, Products for Use in Property Modification, Sealants, Surface Protection Film

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.890	g/cm <sup>3</sup>
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.5	g/10 min
<b>Mechanical</b>			
Flexural modulus (23 °C)	ISO 178	25	MPa
Tensile modulus	ISO 527	19	MPa
Tensile Strength at Break (Compression molded plaques, Type IV spec)	ISO 8986-2	12	MPa
Tensile Elongation at Break (Compression molded plaques, Type IV spec)	ISO 8986-2	>400	%
<i>Note: Measured on specimens conditioned for 10 days at 20°C</i>			
<b>Impact</b>			
Notched impact strength acN 23>C	ISO 179	NB	kJ/m <sup>2</sup>
<i>Note: also at 0 deg.C NB (no break) observed. At - 20deg.C 5.1 KJ/m2</i>			
<b>Hardness</b>			
Shore hardness (Shore A)	ISO 868	87	

### Thermal

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Melting temperature	DSC	114	°C
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*Note:* Tm1 (ISO 11357/3)

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### Additional Information

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Compression set	ASTM D 395	42	%
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*Note:* Compression set measured at 70 deg.C (25% deformation)

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### Additional Properties

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Recommended melt temperatures: 200°C to 260°C

In cases where higher temperatures are required please contact your appropriate technical contact for support.

### Notes

Typical properties; not to be construed as specifications.