

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

Status	Commercial: Active
Test Method used	ISO
Processing Methods	Compression Molding, Blown Film, Calendering, Cast Film, Continuous Filament/Spinning, Extrusion Compression Molding, Injection Molding, Spun Bond
Features	Excellent Elastic Recovery , High Elasticity, Low Temperature Flexibility, Medium Flow, Foamable, Good Melt Strength , Good Processing Stability, Superior Sealing Strength, Weldable
Typical Customer Applications	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
Physical			
Density	ISO 1183	0.890	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.5	g/10 min
Mechanical			
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>			
Impact			
Notched impact strength acN 23>C	ISO 179	NB	KJ/m ²
<i>Note: also at 0 deg.C NB (no break) observed. At - 20deg.C 5.1 KJ/m2</i>			
Hardness			
Shore hardness (Shore A)	ISO 868	87	



Thermal

Melting temperature	DSC	114	°C
<i>Note:</i> Tm1 (ISO 11357/3)			

Additional Information

Compression set	ASTM D 395	42	%
<i>Note:</i> Compression set measured at 70 deg.C (25% deformation)			

Additional Properties

Recommended melt temperatures: 200°C to 260°C

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

Notes

Typical properties; not to be construed as specifications.

