

Koattro KT AR05

Ethylene-based Plastomer

LyondellBasell Industries

Message:

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.

General Information	
Features	Excellent Elastic Recovery
	Foamable
	Good Melt Strength
	Good Processability
	High Elasticity
	Low Temperature Flexibility
	Medium Flow
	Weldable
Uses	Appliances
	Automotive Applications
	Automotive Exterior Parts
	Cast Film
	Color Concentrates
	Film
	Industrial Applications
	Plastics Modification
	Protective Coatings
	Sealants
	Spun Bonding
Forms	Pellets
Processing Method	Blown Film
	Calendering
	Cast Film
	Compression Molding
	Extrusion
	Fiber (Spinning) Extrusion
	Filament Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	87		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19.0	MPa	ISO 527-2
Tensile Stress (Break, Compression Molded)	12.0	MPa	ISO 8986-2
Tensile Strain (Break, Compression Molded)	> 400	%	ISO 8986-2
Flexural Modulus (23°C)	25.0	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Compression Set (70°C)	42	%	ASTM D395B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-20°C	5.1	kJ/m ²	
0°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	114	°C	ISO 11357-3
Extrusion	Nominal Value	Unit	
Melt Temperature	200 to 260	°C	

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