Technical Data Sheet

Koattro KT AR 05

Polybutene-1

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.

Koattro KT AR05 is available in free flowing pellet form.

This grade is not intended for medical and pharmaceutical applications.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Appliances; Automotive Parts; Coatings, Protective; Colour Concentrates; Industrial; Polymer Modifier; Products for Use in Property Modification; Sealants; Surface Protection Film
Market	Consumer Products
Processing Method	Blown Film; Calendaring; Cast Film; Compression Molding; Injection Molding
Attribute	Foamable; Good Melt Strength; Good Processing Stability; High Elasticity; Low Temperature Flexibility; Medium Flow; Weldable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.5	g/10 min	ISO 1133-1
Density	0.890	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus, (23 °C)	25	MPa	ISO 178
Tensile Modulus, (23 °C)	19	MPa	ISO 527-1, -2
Tensile Strength at Break	12	MPa	ISO 8986-2
Tensile Elongation at Break	>400	%	ISO 8986-2
Impact			
Charpy Impact Strength - Notched, (23 °C) Note: NB=no break Note: Also at 0°C NB observed. At -20°C 5.1 kJ/m2	NB	kJ/m²	ISO 179
Hardness			
Shore Hardness, (Shore A)	87		ISO 868
Thermal			
Melting Temperature, Tm1	114	°C	ISO 11357-3

Additional Information			
Compression Set	42	%	ASTM D395

Note: Compression set measured at 70°C (25% deformation)

Notes

Mechanical properties are measured on specimens conditioned for 10 days at 23°C

These are typical property values not to be construed as specification limits.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing