



Koattro KT AR05

Advanced Polyolefin

Product Description

KT AR05 is a novel plastomeric material based on Basell technology with unique characteristics. **KT AR05** shows an excellent compression set performance at 70 deg.C and is highly compatible with Polypropylene(PP). 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 **KT AR05** enhances also the thermal bonding strength. **KT AR05** is available in free flowing pellet form.

Product Characteristics

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

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	890	kg/m ³

Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.8	g/10 min
-------------------------------------	----------	-----	-------------

Mechanical

Flexural modulus (23 °C)	ISO 178	20	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	%
--	------------	------	---

Note: Measured on specimens conditioned for 10 days at 20°C

Impact

Notched impact strength acN 23>C	ISO 179	NB	kJ/m ²
----------------------------------	---------	----	-------------------

Note: Also at 0 deg.C NB (no break) observed. At - 20deg.C 5.1 KJ/m2

Thermal

Melting temperature	DSC	114	°C
---------------------	-----	-----	----

Note: Tm1

Additional Information

Compression set	ASTM D 395	42	%
-----------------	---------------	----	---

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

Notes

Typical properties; not to be construed as specifications.

Copyright 2009 Basell Service Company B.V. All rights reserved.

For the contact details of the LyondellBasell company selling this product in your country, please visit <http://www.lyondellbasell.com/>.

Before using a LyondellBasell product, customers and other users should make their own independent determination that the product is suitable for the intended use. They should also ensure that they can use the LyondellBasell product safely and legally. This document does not constitute a warranty, express or implied, including a warranty of merchantability or fitness for a particular purpose. In addition, no immunity under LyondellBasell's or third parties' intellectual property rights shall be implied from this document. No one is authorized to make any warranties, issue any immunities or assume any liabilities on behalf of LyondellBasell except in a writing signed by an authorized LyondellBasell employee. Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or refund of the purchase price at LyondellBasell's option, and in no event shall LyondellBasell be liable for special, consequential, incidental, punitive or exemplary damages.

CRP, Adflex, Adstif, Adsyl, Akoalit, Akoafloor, Avant, Catalloy, Clyrell, Dexflex, Entegritiy, Get in touch with, Hifax, Higran, Histif, Hostacom, Hostalen, Indure, Koattro, LIPP, Lucalen, Luflexen, Lupocomp, Lupolen, Lupolex, Luposim, Lupostress, Lupotech, Metocene, Moplen, Pristene, Purell, Pro-fax, Sequel, Sholybox, Softell, Spherilene, Spheripol, Spherizone, Stretchene, Toppyl and Valtec are trademarks owned or used by LyondellBasell group companies.

Adflex, Adstif, Adsyl, Akoalit, Akoafloor, Avant, Clyrell, CRP, Dexflex, Hifax, Hostacom, Hostalen, Indure, Koattro, Lucalen, Moplen, Purell, Pro-fax, Sequel, Softell, Spheripol, Spherizone and *Toppyl* are registered in the U.S. Patent and Trademark Office.

Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

Release Date: 21 Nov 2008