Kaneka North America LLC
6161 Underwood Road
Pasadena, TX 77507

KANE ACE® FM-60

ACRYLIC IMPACT MODIFIER

Product Description

Kane Ace® FM-60 is an all acrylic polymer designed to improve the impact properties of rigid vinyl formulations.

General Benefits

Kane Ace® FM-60 is a high efficiency impact modifier with process aid functionality that provides outstanding impact, high gloss and easy processing. Kane Ace® FM-60 has excellent free flow powder properties that contributes to greater efficiency in processing, ease of handling, effective weighing and a less dusty work environment. Kane Ace® FM-60 is highly suited for outdoor, durable PVC based products such as vinyl window profiles, siding, fence, deck, rail and injection molded parts. It is particularly suited for applications requiring high gloss and outstanding impact strength.

Typical Applications and Benefits

- Extruded Profiles - Kane Ace® FM-60 has a broad processing window, promotes excellent sizing and dimensional control including cap layer thickness, and generates smooth surfaces with high gloss. In addition, Kane Ace® FM-60 has excellent weathering properties that helps maintain the gloss of weathered parts.
- Injection Molded Parts- Kane Ace® FM-60 improves melt flow properties and helps reduce gate blush because of its built-in process aid character.

Typical Physical Properties

Chemical Description: Acrylic Copolymer

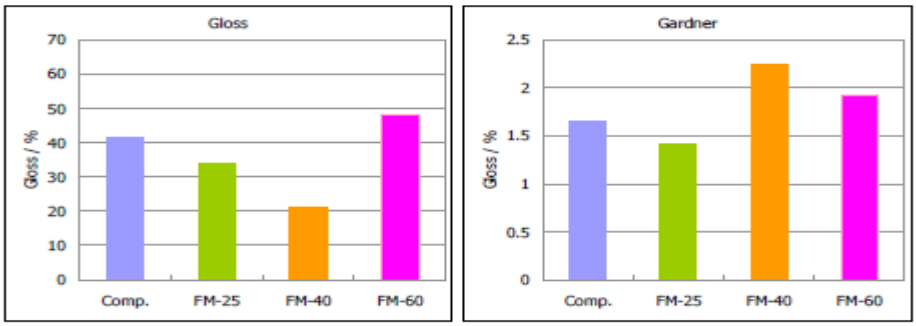
Physical Form	Free Flowing White powder
Bulk Density	>= 0.38 g /cc
Volatile matter	<= 1.5 %
Particle Size	< = 1.0 % on 16 mesh sieve
Specific Gravity	1.0 -1.3 g/cc

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Performance

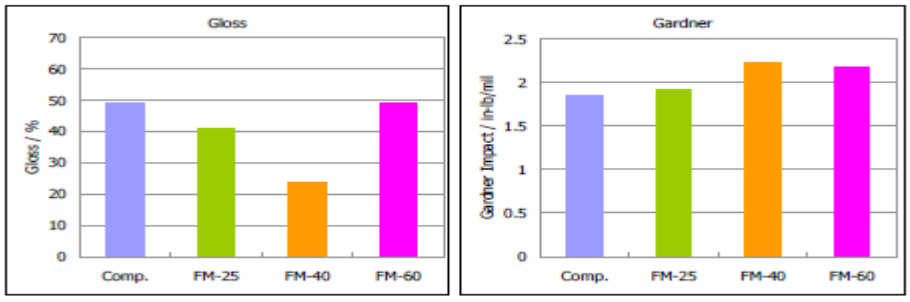
Pellet Extrusion Data

Sample	Gloss	Torque	R.Temp.	R.Press.	Gardner
Comp.	42	81	191	318	1.65
FM-25	34	91	195	321	1.41
FM-40	21	82	192	319	2.24
FM-60	**48**	**86**	**194**	**328**	**1.92**



Powder Extrusion Data

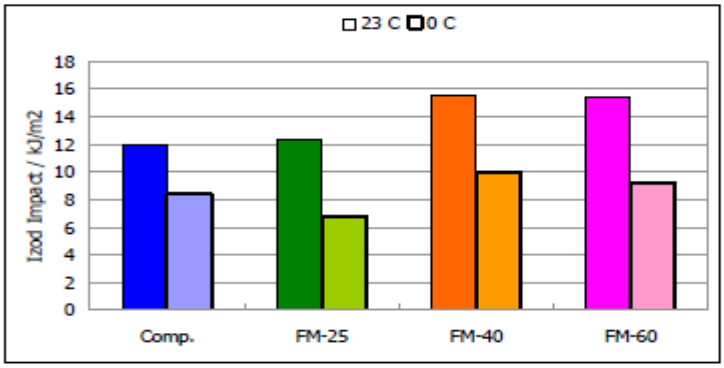
Sample	Gloss	Torque	R.Temp.	R.Press.	Gardner
Comp.	49	56	193	282	1.84
FM-25	41	62	200	283	1.92
FM-40	24	56	193	303	2.23
FM-60	**49**	**58**	**194**	**310**	**2.17**



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Izod Data (Roll-Press)

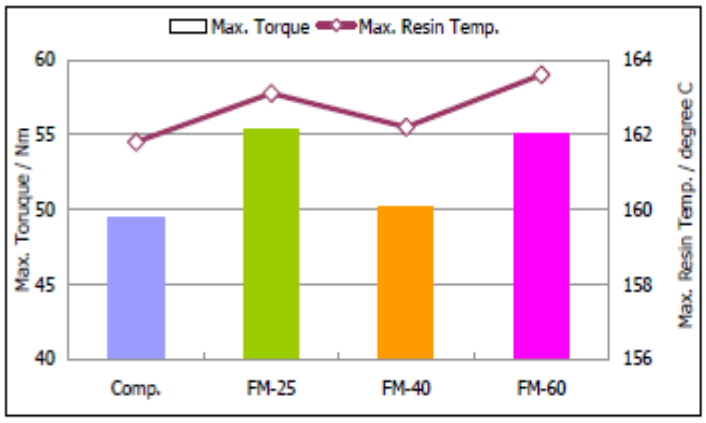
Sample	23 C	0 C
Comp.	12.0	8.4
FM-25	12.3	6.8
FM-40	15.6	10
FM-60	15.5	9.23



Roll: 180C x 10min
Press: 185C x 15min

Brabender

Sample	Max. Torque Nm	Max. Resin Temp. degree C
Comp.	49.4	161.8
FM-25	55.4	163.1
FM-40	50.1	162.2
FM-60	55.1	163.6



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STORAGE AND HANDLING PRACTICES

All employees who handle these products should be trained to handle them safely. Keep containers tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Do not cause static spark; ground all equipment. Systems must be designed to safely handle and convey a material capable of causing a dust explosion.

Do not store near high temperature, boilers, heaters, hot pipes, flames or oxidizing agents. Keep area ventilated. Since material can burn, consider limiting indoor storage to areas equipped with appropriate automatic sprinkler systems. Improper storage conditions may shorten the safe storage time. Since these products may degrade over time, and in order to avoid possible self-ignition, it is recommended that unused material be properly disposed of after 3 years. Do not store in direct sunlight. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity of MSDS). Post warning and “NO SMOKING” signs in storage and use areas, as appropriate. Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged.

Preparing Wastes For Disposal

As supplied, these products do not meet the definition of a hazardous waste. Recover, reclaim or recycle the product, as appropriate. May be disposed of as a solid waste, sealed in an appropriate container.

If mixed with other chemicals, the person using these products must determine if the waste mixture meets the definition of any hazard class and dispose of in accordance with appropriate U.S. Federal, State, and local regulations, or the applicable standards of Canada and its Provinces, those of EU Member States and of Japan.

U.S. EPA WASTE NUMBER: Not applicable.

Product Packaging

Kane Ace® FM-60 is supplied in 50 lb. polymeric bags and 1000 lb. bulk bags.

Contact Information

Please call 1-(800) -526-3223 for additional information or specific recommendations for your intended application.