

# KMI PP KM-037UH

Polypropylene Homopolymer

KMI Group, Inc.

## Message:

KM-037UH is a new class of high crystallinity homo polypropylene with extremely high stiffness and excellent heat resistance. This grade is highly useful for use in electrical/electronic appliances which are exposed to lengthy periods of high temperature.

Food Contact Application:

KM-037UH meets the requirements of the FDA contained in the Code of Federal Regulations in 21 CFR 177.1520.

Characteristics:

High Stiffness -> Thin injection molded products may be formed

Excellent heat resistance -> High service temperature

High crystallinity & flowability -> Suitable for high speed processing

Good surface hardness -> Excellent scratch resistance

General Information			
Features	Rigidity, high		
	High crystallization		
	Homopolymer		
	High scratch resistance		
	High liquidity		
	Heat resistance, high		
	Compliance of Food Exposure		
	Medium hardness		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	41.2	MPa	ASTM D638
Tensile Elongation (Yield)	100	%	ASTM D638
Flexural Modulus	2160	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Distortion	137	°C	ASTM D648

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