

# Ultramid® 8255 HS

## Polyamide 6

BASF Corporation

### Product Description

Ultramid 8255 HS is a heat stabilized, impact modified type 6 nylon graft copolymer developed for both injection molding and extrusion applications. It exhibits varying levels of toughness and flexibility combined with excellent thermal and chemical resistance properties provided by the nylon backbone. It maintains its inherent chemical resistance to greases, oils and hydrocarbons.

### General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Copolymer • Good Abrasion Resistance • Good Chemical Resistance • Good Dimensional Stability • Good Flexibility • Good Flow	• Good Impact Resistance • Good Processability • Good Thermal Aging Resistance • Good Thermal Stability • Good Toughness • Grease Resistant	• Heat Stabilized • Hydrocarbon Resistant • Impact Modified • Medium Viscosity • Oil Resistant • Semi Crystalline
Uses	• Automotive Applications • Cable Jacketing	• Connectors • Fasteners	• Sporting Goods • Tubing
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.3	%	ASTM D955
Water Absorption			ASTM D570
24 hr	1.2	%	
Saturation	7.1	%	
Equilibrium, 50% RH	2.0	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	36.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	30	%	
Break, 23°C	> 100	%	
Flexural Modulus			ASTM D790
-40°C	2830	MPa	
23°C	700	MPa	
65°C	195	MPa	
90°C	160	MPa	
121°C	145	MPa	
Flexural Strength			ASTM D790
-40°C	124	MPa	
23°C	28.0	MPa	
65°C	10.0	MPa	
90°C	9.00	MPa	
121°C	8.00	MPa	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	321	J/m	ASTM D256

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	52		ASTM D785

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	48.0	°C	
Melting Temperature	220	°C	ASTM D3418

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

[www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由厂家发布, 我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Friday, December 18, 2009

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	240 to 270	°C
Mold Temperature	60.0 to 85.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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