

# POLYAMIDE 6

## S3200

(ISO)

### PA6

#### Description

S3200 is a Polyamide 6 grade of medium viscosity.

#### Applications

- Film (Extrusion)

Physical Properties	Unit	Test Method	Typical Value	
Relative Viscosity (1%(w/v) in 96 % (w/w) sulfuric acid)	-	ISO 307	3.20	
Water Content	wt%	ISO 15512	≤ 0.06	
Extractable Content	wt%	Internal method	≤ 0.50	
Amino End Groups	meq/kg	Internal method	35-45	
Chip Size	no./g	Internal method	70 - 110	
Density	g/cm <sup>3</sup>	ISO 1183-1	1.12	
Water Absorption (23°C in water)	%	ISO 62	11.1	
Water Absorption (23°C, 50%RH)	%	ISO 62	2.9	
Melting Point	°C	ISO 11357-3	220	
Mechanical Properties			Dry	5% Water
Tensile Yield Strength	MPa	ISO 527-1, 2	76	37
Tensile Elongation at Yield	%	ISO 527-1, 2	4	22
Tensile Elongation at Break	%	ISO 527-1, 2	107	304
Tensile Modulus	MPa	ISO 527-1, 2	2450	1200
Flexural Strength	MPa	ISO 178	100	32
Flexural Modulus	MPa	ISO 178	2300	600
Charpy Impact Strength (notched, 23°C)	kJ/m <sup>2</sup>	ISO 179-1	6	17
Hardness Rockwell	R Scale	ISO 2039-2	120	98
Thermal Properties			Dry	5% Water
Heat Deflection Temperature (1.80MPa)	°C	ISO 75-1, 2	58	-
UL Ratings				
UL Flammability	-	UL94/1.6mm	HB	

The above data are typical laboratory values and are intended to serve as guides only.

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#### Storage and Handling:

Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids). Store in a cool, dry place. Protect it from moisture absorption and contamination.

#### Regulatory Compliance:

Please visit Petro Rabigh website or contact Quality Assurance and Claim Handling Section:  
[Marketing&ProductDevelopmentDept.QA&CH.Section@petrorabigh.com](mailto:Marketing&ProductDevelopmentDept.QA&CH.Section@petrorabigh.com)

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