

Pebax[®] 7233 SA 01

Polyether block amide Pebax[®] 7233 SA 01 resin is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is suitable for food contact applications

Physical Properties

MEASUREMENT	CONDITION	Value
Density	ISO 1183	1.01g/cm ³
Molding Shrinkage Across Flow Flow	ISO 294-4	1.5% 1.2%
Water Absorption 24 hr, 73°F Equilibrium, 73°F, 50% RH	ISO 62	0.90% 0.70%

Features

- Food Contact Acceptable
- Heat Stabilized

Applications

- Footwear
- Non-specific Food Applications
- Sporting Goods

Hardness Properties

MEASUREMENT	CONDITION	Value
Shore Hardness (Shore D, 15 sec)	ISO 7619-1	61

Mechanical Properties

MEASUREMENT	CONDITION	Value
Tensile Modulus	ISO 527-1	74000psi
Tensile Stress (Yield)	ISO 527-2	3770psi
Tensile Strain (Yield)	ISO 527-2	18%
Nominal Tensile Strain at Break	ISO 527-2	> 50%

Impact Properties

MEASUREMENT	CONDITION	Value
Charpy Notched Impact Strength -22°F 73°F	ISO 179/1eA	4.8ft·lb/in ² 7.1ft·lb/in ²

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Impact Properties (continued)

MEASUREMENT	CONDITION	Value
Charpy Unnotched Impact Strength -22°F 73°F	ISO 179/1eU	No Break No Break

Thermal Properties

MEASUREMENT	CONDITION	Value
Vicat Softening Temperature	ISO 306/B50	327°F
Melting Temperature ²	ISO 11357-3	345°F

Injection Properties

MEASUREMENT	Value
Drying Temperature	158 to 176°F
Drying Time	5.0 to 7.0hr
Processing (Melt) Temp	446 to 554°F
Mold Temperature	77 to 140°F

Extrusion Properties

MEASUREMENT	Value
Drying Temperature	158 to 176°F
Drying Time	5.0 to 7.0hr
Melt Temperature	428 to 482°F

Notes:

²10°C/min

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