

Technical Data Sheet

Pro-fax SD242



Polypropylene, Impact Copolymer

Product Description

Pro-fax SD242 nucleated impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers an excellent stiffness/impact balance.

ASTM and ISO-based versions of the technical data sheet are available for *Pro-fax* SD242.

Regulatory Status

For regulatory compliance information, see *Pro-fax* SD242 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Interior Automotive Applications; TWIM Food Containers
Market	Automotive; Rigid Packaging
Processing Method	Compounding; Injection Molding
Attribute	General Purpose; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	35	g/10 min	ASTM D1238
Density, (23 °C, Method A)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus, (23 °C)	1470	MPa	ISO 178
Tensile Stress at Yield, (23 °C)	27	MPa	ISO 527-1, -2
Tensile Strain at Yield, (23 °C)	5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	4.8	kJ/m ²	ISO 179
(-40 °C)	1.7	kJ/m ²	ISO 179
Notched Izod Impact Strength			
(23 °C)	4.8	kJ/m ²	ISO 180
(-40 °C)	3.0	kJ/m ²	ISO 180
Thermal			
Deflection Temperature Under Load			
(0.45 MPa, Unannealed)	91	°C	ISO 75B-1, -2
(1.80 MPa, Unannealed)	53	°C	ISO 75A-1, -2
Additional Information			
Mold Shrinkage			ISO 294-4

Please contact LyondellBasell for shrinkage recommendations.

Notes

These are typical property values not to be construed as specification limits.

Automotive Specifications

- ▶ FCA MS-DB500 CPN 3560
- ▶ FCA MS-DB500 CPN 3562
- ▶ Ford WSB-M4D638-A
- ▶ GM GMP.PP.096
- ▶ GM GMW16208-T2