

## 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.

<b>Application</b>	Interior Automotive Applications; TWIM Food Containers
<b>Market</b>	Automotive; Rigid Packaging
<b>Processing Method</b>	Compounding; Injection Molding
<b>Attribute</b>	General Purpose; Nucleated

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	35	g/10 min	ASTM D1238
Density, (23 °C, Method A)	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
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
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	4.8	kJ/m <sup>2</sup>	ISO 179
(-40 °C)	1.7	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact Strength			
(23 °C)	4.8	kJ/m <sup>2</sup>	ISO 180
(-40 °C)	3.0	kJ/m <sup>2</sup>	ISO 180
<b>Thermal</b>			
Deflection Temperature Under Load			
(0.45 MPa, Unannealed)	91	°C	ISO 75B-1, -2
(1.80 MPa, Unannealed)	53	°C	ISO 75A-1, -2
<b>Additional Information</b>			
Mold Shrinkage			ISO 294-4
Please contact LyondellBasell for shrinkage recommendations.			