

# Technical Data Sheet

## EvoSource™ PS 3524



### Description

A post-consumer recycled polystyrene for applications requiring increased impact strength. Available in standard grey (reference 70/15) and standard black (reference 90/04).

### Material Properties

	Value	Unit	Test Method
<b>Physical</b>			
Density	1.05	g/cm <sup>3</sup>	MBA method
<b>Rheological</b>			
Melt Flow Rate (200°C / 5.0 kg)	6	g/10 min	ISO 1133
<b>Mechanical</b>			
Tensile Modulus (23°C)	2250	MPa	ISO 527-2/1
Tensile Stress at Yield (23°C)	25	MPa	ISO 527-2/50
Flexural Modulus (23°C)	2200	MPa	ISO 178/2
<b>Impact</b>			
Izod Impact Strength, notched (23°C)	10	kJ/m <sup>2</sup>	ISO 180/1A
Charpy Impact Strength, notched (23°C)	10	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal</b>			
Vicat Softening Temperature	85	°C	ISO 306/B50
<b>UL Ratings</b>			
Flammability Rating (1.7 - 2.8 mm)	HB		UL 94 HB

#### Note:

The data above is provided in good faith and represents typical properties based on our current knowledge and experience. Product properties may be changed without notice. These properties are provided as a guide and should not be construed as binding specification limits or minimum values. This document does not create any liability, warranty or guarantee of product performance. It is the buyer's responsibility to determine the suitability of MBA Polymers products for the intended application. We DO NOT recommend our materials for toys or for applications that involve food contact or human oral contact or for medical applications.

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### Processing Information

	Value	Unit
<b>Preprocessing</b>		
Drying Temperature	70	°C
Drying Time	1-2	hr
Moisture Content	<0.05-0.10	%
<b>Injection Molding</b>		
Melt Temperature Range	190-230	°C
Recommended Melt Temperature	220	°C
Mold Temperature Range	20-60	°C
Recommended Mold Temperature	40	°C
Recommended Screw Back Pressure	100-200	bar
<b>Extrusion</b>		
Melt Temperature Range	180-210	°C
Recommended Melt Temperature	200	°C

**Note:**

The processing parameters listed above are general guidelines based on our current knowledge and experience. The suitability of the data for a specific processing method can only be ensured with investigations and tests by the end user.