

# Pebax® Rnew 80R53 SP 02

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax® Rnew 80R53 SP 02 is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources. This SP grade has been developed to be heat and UV resistant.

General Information			
Features	Good UV Resistance		
	High Heat Resistance		
	Renewable Resource Content		
Uses	Footwear		
	Sporting Goods		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm <sup>3</sup>	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	0.70	%	
Equilibrium, 23°C, 50% RH	0.80	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	73		
Shore D, 15 sec	67		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	55.0	MPa	ISO 527-2
Tensile Strain (Break)	> 300	%	ISO 527-2
Flexural Modulus	850	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	16	kJ/m <sup>2</sup>	
23°C	43	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	188	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
Renewable Carbon Conent	93 to 97	%	ASTM D6866
Injection	Nominal Value	Unit	

Drying Temperature	70.0 to 80.0	°C
Drying Time	5.0 to 7.0	hr
Processing (Melt) Temp	230 to 290	°C
Mold Temperature	25.0 to 60.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	70.0 to 80.0	°C
Drying Time	5.0 to 7.0	hr
Melt Temperature	230 to 290	°C

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#### Recommended distributors for this material

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